

Erk-1 and Erk-2 kinases (1 hr at RT). This antibody is biotinylated by standard procedures. The bound polyclonal antibody is then quantitated by successive incubations with Europium-streptavidin and Europium fluorescence enhancing reagent in the Wallac DELFIA instrument (time-resolved fluorescence). An increased  
5 fluorescent signal over background indicates a phosphorylation by polypeptide of the present invention or a molecule induced by polypeptide of the present invention.

*Example 42: Assay for the Stimulation of Bone Marrow CD34+ Cell Proliferation*

10 This assay is based on the ability of human CD34+ to proliferate in the presence of hematopoietic growth factors and evaluates the ability of isolated polypeptides expressed in mammalian cells to stimulate proliferation of CD34+ cells.

It has been previously shown that most mature precursors will respond to only a single signal. More immature precursors require at least two signals to respond.  
15 Therefore, to test the effect of polypeptides on hematopoietic activity of a wide range of progenitor cells, the assay contains a given polypeptide in the presence or absence of other hematopoietic growth factors. Isolated cells are cultured for 5 days in the presence of Stem Cell Factor (SCF) in combination with tested sample. SCF alone has a very limited effect on the proliferation of bone marrow (BM) cells, acting in  
20 such conditions only as a "survival" factor. However, combined with any factor exhibiting stimulatory effect on these cells (e.g., IL-3), SCF will cause a synergistic effect. Therefore, if the tested polypeptide has a stimulatory effect on a hematopoietic progenitors, such activity can be easily detected. Since normal BM cells have a low level of cycling cells, it is likely that any inhibitory effect of a given polypeptide, or  
25 agonists or antagonists thereof, might not be detected. Accordingly, assays for an inhibitory effect on progenitors is preferably tested in cells that are first subjected to *in vitro* stimulation with SCF+IL+3, and then contacted with the compound that is being evaluated for inhibition of such induced proliferation.

Briefly, CD34+ cells are isolated using methods known in the art. The cells  
30 are thawed and resuspended in medium (QBSF 60 serum-free medium with 1% L-

glutamine (500ml) Quality Biological, Inc., Gaithersburg, MD Cat# 160-204-101). After several gentle centrifugation steps at 200 x g, cells are allowed to rest for one hour. The cell count is adjusted to  $2.5 \times 10^5$  cells/ml. During this time, 100  $\mu$ l of sterile water is added to the peripheral wells of a 96-well plate. The cytokines that  
5 can be tested with a given polypeptide in this assay is rhSCF (R&D Systems, Minneapolis, MN, Cat# 255-SC) at 50 ng/ml alone and in combination with rhSCF and rhIL-3 (R&D Systems, Minneapolis, MN, Cat# 203-ML) at 30 ng/ml. After one hour, 10  $\mu$ l of prepared cytokines, 50  $\mu$ l of the supernatants prepared in Example 31 (supernatants at 1:2 dilution = 50  $\mu$ l) and 20  $\mu$ l of diluted cells are added to the media  
10 which is already present in the wells to allow for a final total volume of 100  $\mu$ l. The plates are then placed in a 37°C/5% CO<sub>2</sub> incubator for five days.

Eighteen hours before the assay is harvested, 0.5  $\mu$ Ci/well of [3H] Thymidine is added in a 10  $\mu$ l volume to each well to determine the proliferation rate. The experiment is terminated by harvesting the cells from each 96-well plate to a filtermat  
15 using the Tomtec Harvester 96. After harvesting, the filtermats are dried, trimmed and placed into OmniFilter assemblies consisting of one OmniFilter plate and one OmniFilter Tray. 60  $\mu$ l Microscint is added to each well and the plate sealed with TopSeal-A press-on sealing film. A bar code 15 sticker is affixed to the first plate for counting. The sealed plates is then loaded and the level of radioactivity determined  
20 via the Packard Top Count and the printed data collected for analysis. The level of radioactivity reflects the amount of cell proliferation.

The studies described in this example test the activity of a given polypeptide to stimulate bone marrow CD34+ cell proliferation. One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene  
25 therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof. As a nonlimiting example, potential antagonists tested in this assay would be expected to inhibit cell proliferation in the presence of cytokines and/or to increase the inhibition of cell proliferation in the presence of cytokines and a given polypeptide. In contrast, potential agonists tested in this assay would be expected to enhance cell  
30 proliferation and/or to decrease the inhibition of cell proliferation in the presence of

cytokines and a given polypeptide.

The ability of a gene to stimulate the proliferation of bone marrow CD34+ cells indicates that polynucleotides and polypeptides corresponding to the gene are useful for the diagnosis and treatment of disorders affecting the immune system and hematopoiesis. Representative uses are described in the “Immune Activity” and “Infectious Disease” sections above, and elsewhere herein.

*Example 43: Assay for Extracellular Matrix Enhanced Cell Response (EMECCR)*

10           The objective of the Extracellular Matrix Enhanced Cell Response (EMECCR) assay is to identify gene products (e.g., isolated polypeptides) that act on the hematopoietic stem cells in the context of the extracellular matrix (ECM) induced signal.

15           Cells respond to the regulatory factors in the context of signal(s) received from the surrounding microenvironment. For example, fibroblasts, and endothelial and epithelial stem cells fail to replicate in the absence of signals from the ECM. Hematopoietic stem cells can undergo self-renewal in the bone marrow, but not in *in vitro* suspension culture. The ability of stem cells to undergo self-renewal *in vitro* is dependent upon their interaction with the stromal cells and the ECM protein fibronectin (fn). Adhesion of cells to fn is mediated by the  $\alpha_5\beta_1$  and  $\alpha_4\beta_1$  integrin receptors, which are expressed by human and mouse hematopoietic stem cells. The factor(s) which integrate with the ECM environment and responsible for stimulating stem cell self-renewal has not yet been identified. Discovery of such factors should be of great interest in gene therapy and bone marrow transplant applications

25           Briefly, polystyrene, non tissue culture treated, 96-well plates are coated with fn fragment at a coating concentration of  $0.2 \mu\text{g}/\text{cm}^2$ . Mouse bone marrow cells are plated (1,000 cells/well ) in 0.2 ml of serum-free medium. Cells cultured in the presence of IL-3 ( 5 ng/ml ) + SCF ( 50 ng/ml ) would serve as the positive control, conditions under which little self-renewal but pronounced differentiation of the stem

cells is to be expected. Gene products of the invention (e.g., including, but not limited to, polynucleotides and polypeptides of the present invention, and supernatants produced in Example 31), are tested with appropriate negative controls in the presence and absence of SCF(5.0 ng/ml), where test factor supernates represent 10% of the total assay volume. The plated cells are then allowed to grow by incubating in a low oxygen environment ( 5% CO<sub>2</sub>, 7% O<sub>2</sub>, and 88% N<sub>2</sub> ) tissue culture incubator for 7 days. The number of proliferating cells within the wells is then quantitated by measuring thymidine incorporation into cellular DNA. Verification of the positive hits in the assay will require phenotypic characterization of the cells, which can be accomplished by scaling up of the culture system and using appropriate antibody reagents against cell surface antigens and FACScan.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

If a particular polypeptide of the present invention is found to be a stimulator of hematopoietic progenitors, polynucleotides and polypeptides corresponding to the gene encoding said polypeptide may be useful for the diagnosis and treatment of disorders affecting the immune system and hematopoiesis. Representative uses are described in the "Immune Activity" and "Infectious Disease" sections above, and elsewhere herein. The gene product may also be useful in the expansion of stem cells and committed progenitors of various blood lineages, and in the differentiation and/or proliferation of various cell types.

Additionally, the polynucleotides and/or polypeptides of the gene of interest and/or agonists and/or antagonists thereof, may also be employed to inhibit the proliferation and differentiation of hematopoietic cells and therefore may be employed to protect bone marrow stem cells from chemotherapeutic agents during chemotherapy. This antiproliferative effect may allow administration of higher doses of chemotherapeutic agents and, therefore, more effective chemotherapeutic treatment.

Moreover, polynucleotides and polypeptides corresponding to the gene of



interest may also be useful for the treatment and diagnosis of hematopoietic related disorders such as, for example, anemia, pancytopenia, leukopenia, thrombocytopenia or leukemia since stromal cells are important in the production of cells of hematopoietic lineages. The uses include bone marrow cell ex-vivo culture, bone marrow transplantation, bone marrow reconstitution, radiotherapy or chemotherapy of neoplasia.

*Example 44: Human Dermal Fibroblast and Aortic Smooth Muscle Cell Proliferation*

The polypeptide of interest is added to cultures of normal human dermal fibroblasts (NHDF) and human aortic smooth muscle cells (AoSMC) and two co-assays are performed with each sample. The first assay examines the effect of the polypeptide of interest on the proliferation of normal human dermal fibroblasts (NHDF) or aortic smooth muscle cells (AoSMC). Aberrant growth of fibroblasts or smooth muscle cells is a part of several pathological processes, including fibrosis, and restenosis. The second assay examines IL6 production by both NHDF and SMC. IL6 production is an indication of functional activation. Activated cells will have increased production of a number of cytokines and other factors, which can result in a proinflammatory or immunomodulatory outcome. Assays are run with and without co-TNF $\alpha$  stimulation, in order to check for costimulatory or inhibitory activity.

Briefly, on day 1, 96-well black plates are set up with 1000 cells/well (NHDF) or 2000 cells/well (AoSMC) in 100  $\mu$ l culture media. NHDF culture media contains: Clonetics FB basal media, 1mg/ml hFGF, 5mg/ml insulin, 50mg/ml gentamycin, 2%FBS, while AoSMC culture media contains Clonetics SM basal media, 0.5  $\mu$ g/ml hEGF, 5mg/ml insulin, 1 $\mu$ g/ml hFGF, 50mg/ml gentamycin, 50  $\mu$ g/ml Amphotericin B, 5%FBS. After incubation at 37°C for at least 4-5 hours, culture media is aspirated and replaced with growth arrest media. Growth arrest media for NHDF contains fibroblast basal media, 50mg/ml gentamycin, 2% FBS, while growth arrest media for AoSMC contains SM basal media, 50mg/ml gentamycin, 50 $\mu$ g/ml Amphotericin B, 0.4% FBS. Incubate at 37°C until day 2.

On day 2, serial dilutions and templates of the polypeptide of interest are designed such that they always include media controls and known-protein controls. For both stimulation and inhibition experiments, proteins are diluted in growth arrest media. For inhibition experiments, TNFa is added to a final concentration of 2ng/ml (NHDF) or 5ng/ml (AoSMC). Add 1/3 vol media containing controls or polypeptides  
5 of the present invention and incubate at 37°C/5% CO<sub>2</sub> until day 5.

Transfer 60µl from each well to another labeled 96-well plate, cover with a plate-sealer, and store at 4°C until Day 6 (for IL6 ELISA). To the remaining 100 µl in the cell culture plate, aseptically add Alamar Blue in an amount equal to 10% of the  
10 culture volume (10µl). Return plates to incubator for 3 to 4 hours. Then measure fluorescence with excitation at 530nm and emission at 590nm using the CytoFluor. This yields the growth stimulation/inhibition data.

On day 5, the IL6 ELISA is performed by coating a 96 well plate with 50-100 µl/well of Anti-Human IL6 Monoclonal antibody diluted in PBS, pH 7.4, incubate ON  
15 at room temperature.

On day 6, empty the plates into the sink and blot on paper towels. Prepare Assay Buffer containing PBS with 4% BSA. Block the plates with 200 µl/well of Pierce Super Block blocking buffer in PBS for 1-2 hr and then wash plates with wash buffer (PBS, 0.05% Tween-20). Blot plates on paper towels. Then add 50 µl/well of  
20 diluted Anti-Human IL-6 Monoclonal, Biotin-labeled antibody at 0.50 mg/ml. Make dilutions of IL-6 stock in media (30, 10, 3, 1, 0.3, 0 ng/ml). Add duplicate samples to top row of plate. Cover the plates and incubate for 2 hours at RT on shaker. Plates are washed with wash buffer and blotted on paper towels. Dilute EU-labeled Streptavidin 1:1000 in Assay buffer, and add 100 µl/well. Cover the plate and incubate 1 h at RT.  
25 Plates are again washed with wash buffer and blotted on paper towels. Add 100 µl/well of Enhancement Solution and shake for 5 minutes. Read the plate on the Wallac DELFIA Fluorometer. Readings from triplicate samples in each assay are tabulated and averaged.

A positive result in this assay suggests AoSMC cell proliferation and that the  
30 polypeptide of the present invention may be involved in dermal fibroblast

proliferation and/or smooth muscle cell proliferation. A positive result also suggests many potential uses of polypeptides, polynucleotides, agonists and/or antagonists of the polynucleotide/polypeptide of the present invention which gives a positive result. For example, inflammation and immune responses, wound healing, and angiogenesis, as detailed throughout this specification. Particularly, polypeptides of the present invention and polynucleotides of the present invention may be used in wound healing and dermal regeneration, as well as the promotion of vasculargenesis, both of the blood vessels and lymphatics. The growth of vessels can be used in the treatment of, for example, cardiovascular diseases. Additionally, antagonists of polypeptides and polynucleotides of the invention may be useful in treating diseases, disorders, and/or conditions which involve angiogenesis by acting as an anti-vascular (e.g., anti-angiogenesis). These diseases, disorders, and/or conditions are known in the art and/or are described herein, such as, for example, malignancies, solid tumors, benign tumors, for example hemangiomas, acoustic neuromas, neurofibromas, trachomas, and pyogenic granulomas; arteriosclerotic plaques; ocular angiogenic diseases, for example, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, retinoblastoma, uveitis and Pterygia (abnormal blood vessel growth) of the eye; rheumatoid arthritis; psoriasis; delayed wound healing; endometriosis; vasculogenesis; granulations; hypertrophic scars (keloids); nonunion fractures; scleroderma; trachoma; vascular adhesions; myocardial angiogenesis; coronary collaterals; cerebral collaterals; arteriovenous malformations; ischemic limb angiogenesis; Osler-Webber Syndrome; plaque neovascularization; telangiectasia; hemophilic joints; angiofibroma; fibromuscular dysplasia; wound granulation; Crohn's disease; and atherosclerosis. Moreover, antagonists of polypeptides and polynucleotides of the invention may be useful in treating anti-hyperproliferative diseases and/or anti-inflammatory known in the art and/or described herein.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

*Example 45: Cellular Adhesion Molecule (CAM) Expression on Endothelial Cells*

5           The recruitment of lymphocytes to areas of inflammation and angiogenesis involves specific receptor-ligand interactions between cell surface adhesion molecules (CAMs) on lymphocytes and the vascular endothelium. The adhesion process, in both normal and pathological settings, follows a multi-step cascade that involves intercellular adhesion molecule-1 (ICAM-1), vascular cell adhesion molecule-1  
10 (VCAM-1), and endothelial leukocyte adhesion molecule-1 (E-selectin) expression on endothelial cells (EC). The expression of these molecules and others on the vascular endothelium determines the efficiency with which leukocytes may adhere to the local vasculature and extravasate into the local tissue during the development of an inflammatory response. The local concentration of cytokines and growth factor  
15 participate in the modulation of the expression of these CAMs.

          Briefly, endothelial cells (e.g., Human Umbilical Vein Endothelial cells (HUVECs)) are grown in a standard 96 well plate to confluence, growth medium is removed from the cells and replaced with 100  $\mu$ l of 199 Medium (10% fetal bovine serum (FBS)). Samples for testing and positive or negative controls are added to the  
20 plate in triplicate (in 10  $\mu$ l volumes). Plates are then incubated at 37°C for either 5 h (selectin and integrin expression) or 24 h (integrin expression only). Plates are aspirated to remove medium and 100  $\mu$ l of 0.1% paraformaldehyde-PBS(with Ca<sup>++</sup> and Mg<sup>++</sup>) is added to each well. Plates are held at 4°C for 30 min. Fixative is removed from the wells and wells are washed 1X with PBS(+Ca,Mg) + 0.5% BSA  
25 and drained. 10  $\mu$ l of diluted primary antibody is added to the test and control wells. Anti-ICAM-1-Biotin, Anti-VCAM-1-Biotin and Anti-E-selectin-Biotin are used at a concentration of 10  $\mu$ g/ml (1:10 dilution of 0.1 mg/ml stock antibody). Cells are incubated at 37°C for 30 min. in a humidified environment. Wells are washed three times with PBS(+Ca,Mg) + 0.5% BSA. 20  $\mu$ l of diluted ExtrAvidin-Alkaline  
30 Phosphotase (1:5,000 dilution, referred to herein as the working dilution) are added to

each well and incubated at 37°C for 30 min. Wells are washed three times with PBS(+Ca,Mg)+0.5% BSA. Dissolve 1 tablet of p-Nitrophenol Phosphate pNPP per 5 ml of glycine buffer (pH 10.4). 100 µl of pNPP substrate in glycine buffer is added to each test well. Standard wells in triplicate are prepared from the working dilution of the ExtrAvidin-Alkaline Phosphatase in glycine buffer: 1:5,000 ( $10^0$ ) >  $10^{-0.5}$  >  $10^{-1}$  >  $10^{-1.5}$ . 5 µl of each dilution is added to triplicate wells and the resulting AP content in each well is 5.50 ng, 1.74 ng, 0.55 ng, 0.18 ng. 100 µl of pNPP reagent is then added to each of the standard wells. The plate is incubated at 37°C for 4h. A volume of 50 µl of 3M NaOH is added to all wells. The plate is read on a plate reader at 405 nm using the background subtraction option on blank wells filled with glycine buffer only. Additionally, the template is set up to indicate the concentration of AP-conjugate in each standard well [ 5.50 ng; 1.74 ng; 0.55 ng; 0.18 ng]. Results are indicated as amount of bound AP-conjugate in each sample.

15 *Example 46: Alamar Blue Endothelial Cells Proliferation Assay*

This assay may be used to quantitatively determine protein mediated inhibition of bFGF-induced proliferation of Bovine Lymphatic Endothelial Cells (LECs), Bovine Aortic Endothelial Cells (BAECs) or Human Microvascular Uterine Myometrial Cells (UTMECs). This assay incorporates a fluorometric growth indicator based on detection of metabolic activity. A standard Alamar Blue Proliferation Assay is prepared in EGM-2MV with 10 ng /ml of bFGF added as a source of endothelial cell stimulation. This assay may be used with a variety of endothelial cells with slight changes in growth medium and cell concentration. Dilutions of the protein batches to be tested are diluted as appropriate. Serum-free medium (GIBCO SFM) without bFGF is used as a non-stimulated control and Angiostatin or TSP-1 are included as a known inhibitory controls.

Briefly, LEC, BAECs or UTMECs are seeded in growth media at a density of 5000 to 2000 cells/well in a 96 well plate and placed at 37-C overnight. After the overnight incubation of the cells, the growth media is removed and replaced with

GIBCO EC-SFM. The cells are treated with the appropriate dilutions of the protein of interest or control protein sample(s) (prepared in SFM ) in triplicate wells with additional bFGF to a concentration of 10 ng/ ml. Once the cells have been treated with the samples, the plate(s) is/are placed back in the 37° C incubator for three days.

- 5 After three days 10 ml of stock alamar blue (Biosource Cat# DAL1100) is added to each well and the plate(s) is/are placed back in the 37°C incubator for four hours. The plate(s) are then read at 530nm excitation and 590nm emission using the CytoFluor fluorescence reader. Direct output is recorded in relative fluorescence units.

- 10 Alamar blue is an oxidation-reduction indicator that both fluoresces and changes color in response to chemical reduction of growth medium resulting from cell growth. As cells grow in culture, innate metabolic activity results in a chemical reduction of the immediate surrounding environment. Reduction related to growth causes the indicator to change from oxidized (non-fluorescent blue) form to reduced (fluorescent red) form. i.e. stimulated proliferation will produce a stronger signal and
- 15 inhibited proliferation will produce a weaker signal and the total signal is proportional to the total number of cells as well as their metabolic activity. The background level of activity is observed with the starvation medium alone. This is compared to the output observed from the positive control samples (bFGF in growth medium) and protein dilutions.

20

*Example 47: Detection of Inhibition of a Mixed Lymphocyte Reaction*

This assay can be used to detect and evaluate inhibition of a Mixed Lymphocyte Reaction (MLR) by gene products (e.g., isolated polypeptides).

- 25 Inhibition of a MLR may be due to a direct effect on cell proliferation and viability, modulation of costimulatory molecules on interacting cells, modulation of adhesiveness between lymphocytes and accessory cells, or modulation of cytokine production by accessory cells. Multiple cells may be targeted by these polypeptides since the peripheral blood mononuclear fraction used in this assay includes T, B and

natural killer lymphocytes, as well as monocytes and dendritic cells.

Polypeptides of interest found to inhibit the MLR may find application in diseases associated with lymphocyte and monocyte activation or proliferation. These include, but are not limited to, diseases such as asthma, arthritis, diabetes, inflammatory skin conditions, psoriasis, eczema, systemic lupus erythematosus, multiple sclerosis, glomerulonephritis, inflammatory bowel disease, crohn's disease, ulcerative colitis, arteriosclerosis, cirrhosis, graft vs. host disease, host vs. graft disease, hepatitis, leukemia and lymphoma.

Briefly, PBMCs from human donors are purified by density gradient centrifugation using Lymphocyte Separation Medium (LSM<sup>®</sup>, density 1.0770 g/ml, Organon Teknika Corporation, West Chester, PA). PBMCs from two donors are adjusted to  $2 \times 10^6$  cells/ml in RPMI-1640 (Life Technologies, Grand Island, NY) supplemented with 10% FCS and 2 mM glutamine. PBMCs from a third donor is adjusted to  $2 \times 10^5$  cells/ml. Fifty microliters of PBMCs from each donor is added to wells of a 96-well round bottom microtiter plate. Dilutions of test materials (50  $\mu$ l) is added in triplicate to microtiter wells. Test samples (of the protein of interest) are added for final dilution of 1:4; rhuIL-2 (R&D Systems, Minneapolis, MN, catalog number 202-IL) is added to a final concentration of 1  $\mu$ g/ml; anti-CD4 mAb (R&D Systems, clone 34930.11, catalog number MAB379) is added to a final concentration of 10  $\mu$ g/ml. Cells are cultured for 7-8 days at 37°C in 5% CO<sub>2</sub>, and 1  $\mu$ C of [<sup>3</sup>H] thymidine is added to wells for the last 16 hrs of culture. Cells are harvested and thymidine incorporation determined using a Packard TopCount. Data is expressed as the mean and standard deviation of triplicate determinations.

Samples of the protein of interest are screened in separate experiments and compared to the negative control treatment, anti-CD4 mAb, which inhibits proliferation of lymphocytes and the positive control treatment, IL-2 (either as recombinant material or supernatant), which enhances proliferation of lymphocytes.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

It will be clear that the invention may be practiced otherwise than as particularly described in the foregoing description and examples. Numerous modifications and variations of the present invention are possible in light of the above teachings and, therefore, are within the scope of the appended claims.

5       The entire disclosure of each document cited (including patents, patent applications, journal articles, abstracts, laboratory manuals, books, or other disclosures) in the Background of the Invention, Detailed Description, and Examples is hereby incorporated herein by reference. Further, the hard copy of the sequence listing submitted herewith and the corresponding computer readable form are both  
10 incorporated herein by reference in their entireties. Moreover, the hard copy of and the corresponding computer readable form of the Sequence Listing of Serial No. 60/124,270 are also incorporated herein by reference in their entireties.



411

Applicant's or agent's file reference number	PA103PCT	International application no.
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209059</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
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The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

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The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

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The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

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**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
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The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

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The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

414

Applicant's or agent's file reference number	PA103PCT	International application
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Name of depositary institution <b>American Type Culture Collection</b>	
Address of depositary institution (including postal code and country) <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>20 May 1997</b>	Accession Number <b>209060</b>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
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The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209060

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

417

Applicant's or agent's file reference number	PA103PCT	International application N
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209061</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US</b> <b>03 MAR 2000</b> Authorized officer <b>Rolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b> <b>(703) 305-3870</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209061****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



Page 2

ATCC Deposit No. 209061

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

420

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  20 May 1997	Accession Number  209062
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3570

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Authorized officer

**ATCC Deposit No. 209062****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209062

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

423

Applicant's or agent's file reference number	PA103PCT	International application i
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209063</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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<input checked="" type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
<b>RO/US</b> <b>20 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b> <b>(703) 305 3670</b>	Authorized officer

**ATCC Deposit No. 209063****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection. the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209063

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

426

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209064
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application <b>RO/US CS MAR2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3878	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209064**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209064

## **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

429

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country)  <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2709</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209065</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 02 MAR 2000</b> Authorized officer: <u>Patricia Harco</u> <u>PCT/Int'l Appl Processing Div.</u> <u>(703) 305-3870</u>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer:
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**ATCC Deposit No. 209065****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209065

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

432

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209066
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 05 MAR 2000</b> Authorized officer Valeria Harrod PCT/Int'l Appl Processing Div. (703) 305-3870	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209066****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209066

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



435

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <b>American Type Culture Collection</b>	
Address of depositary institution (including postal code and country)  <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>20 May 1997</b>	Accession Number <b>209067</b>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input checked="" type="checkbox"/> This sheet was received with the international application <b>RO/US 15 MAR 2000</b>	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b>	Authorized officer

**ATCC Deposit No. 209067****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209067

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

438

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3870	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209068****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209068

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

441

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209069
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application AUTHORIZED OFFICER PCT/International App. Processing Div. (703) 305-3879	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: AUTHORIZED OFFICER
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**ATCC Deposit No. 209069****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



Page 2

ATCC Deposit No. 209069

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

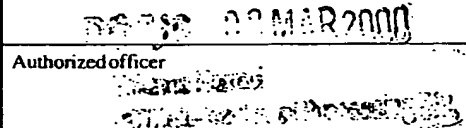
444

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 12 January 1998	Accession Number 209579
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input checked="" type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
 Authorized officer	Authorized officer

**ATCC Deposit No. 209579**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209579

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

447

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  12 January 1998	Accession Number  209578
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Int'l Appl Processing Div.</b> <b>7030 305 3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209578****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209578

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

450

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<b>A.</b> The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
<b>B. IDENTIFICATION OF DEPOSIT</b> Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  16 July 1998	Accession Number  203067
<b>C. ADDITIONAL INDICATIONS</b> (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
<b>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE</b> (if the indications are not for all designated States)	
<b>E. SEPARATE FURNISHING OF INDICATIONS</b> (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")          	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer V. HARRIS PCT/Internat'l Appl Processing Ctr 703 305-3670	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on:  Authorized officer
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**ATCC Deposit No. 203067****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203067

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

453

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <b>American Type Culture Collection</b>	
Address of depositary institution (including postal code and country) <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>16 July 1998</b>	Accession Number <b>203068</b>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 08 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203068****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 203068

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

456

Applicant's or agent's file reference number	PA103PCT	International application?
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  1 February 1999	Accession Number  203609
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internet Appl Processing Div. (703) 305-6075	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203609****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203609

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



459

Applicant's or agent's file reference number	PA103PCT	International application f
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  1 February 1999	Accession Number  203610
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 06 MAR 2000</b> Authorized officer: <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer:
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**ATCC Deposit No. 203610****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203610

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

462

Applicant's or agent's file reference number	PA103PCT	International application number
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  17 November 1998	Accession Number  203485
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 08 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Off.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203485**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203485

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

465

Applicant's or agent's file reference number	PA103PCT	International application f
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  18 June 1999	Accession Number  PTA-252
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div.	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. PTA-252****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.



Page 2

ATCC Deposit No. PTA-252

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

468

Applicant's or agent's file reference number	PA103PCT	International application N°
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 18 June 1999	Accession Number PTA-253
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application RO/US 00 MAR 2000
Authorized officer Volanda Harrod PCT/Intemat'l Appl Processing Div. (703) 305-3670

<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on:
Authorized officer

**ATCC Deposit No. PTA-253****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

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**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. PTA-253

## **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## **SWEDEN**

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## **NETHERLANDS**

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471

Applicant's or agent's file reference number	PA103PCT	International application?
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  22 December 1999	Accession Number  PTA-1081
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer <b>Valerie Harrod</b> <b>PCT/International Appl Processing Div.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. PTA-1081****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

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**FINLAND**

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**UNITED KINGDOM**

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Page 2

ATCC Deposit No. PTA-1081

#### **DENMARK**

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*What Is Claimed Is:*

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- 5
- (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 10 (c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO:X or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 15 (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 20 (f) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X, having biological activity;
  - (g) a polynucleotide which is a variant of SEQ ID NO:X;
  - 25 (h) a polynucleotide which is an allelic variant of SEQ ID NO:X;
  - (i) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;
  - (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i), wherein said polynucleotide does not
  - 30 hybridize under stringent conditions to a nucleic acid molecule having a nucleotide



sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

5

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

10

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

15

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

20

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

25

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

30

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.
11. An isolated polypeptide comprising an amino acid sequence at least  
5 95% identical to a sequence selected from the group consisting of:
- (a) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (b) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone, having biological activity;
  - 10 (c) a polypeptide domain of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (d) a polypeptide epitope of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (e) a full length protein of SEQ ID NO:Y or of the sequence encoded by the  
15 cDNA included in the related cDNA clone;
  - (f) a variant of SEQ ID NO:Y;
  - (g) an allelic variant of SEQ ID NO:Y; or
  - (h) a species homologue of the SEQ ID NO:Y.
- 20 12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
- 25 13. An isolated antibody that binds specifically to the isolated polypeptide of claim 11.
14. A recombinant host cell that expresses the isolated polypeptide of claim 11.
- 30 15. A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

5           16.    The polypeptide produced by claim 15.

17.    A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

10

18.    A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and

15           (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19.    A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

20           (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

25           20.    A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

30

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.
22. A method of identifying an activity in a biological assay, wherein the method comprises:
- 5 (a) expressing SEQ ID NO:X in a cell;
- (b) isolating the supernatant;
- (c) detecting an activity in a biological assay; and
- (d) identifying the protein in the supernatant having the activity.
- 10 23. The product produced by the method of claim 20.

## SEQUENCE LISTING

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Steve Ruben

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&lt;210&gt; 3

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (246)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 3

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ggcacgagaa ccatttccac tatatatcc ttcggataac taraaattaa awtatttggt 60
gtattatttg caaggagtca aagatgatgt cttttcccag aggcattgaac cttagaaatg 120
ctttcgatgg ggatgtttct gtaacactgt gttattctgg atcttcaa atagcaaaag 180
ccaattactc taaatgtaaa atttttctat tcccaagggt cacttttggt tggtaggttt 240
tcacgntttt aaatactgtt taatggaaga aaaatacgta gccaggcgtg gtggctcaca 300
cctgtagccc cggaactttg ggagactgaa gcgggcagat cagcagggtca ggag 354

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&lt;210&gt; 4

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (502)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 4

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agacgcacgc gtactgctcc aacctcagct tccgcctcta cgaccagtgg cgagcctgga 60
tgcagaaagtc gcacaagacc cgcaaccagc acaggacgag gggatcctgc cctcgggcag 120
acgggggcacg gcgagagggt ctgccagata agctgtagggt gctcaggcca cctccctgc 180
cacgtggaga cgcagaggcc gaacccaaac tggggccacc tctgtaccct cacttcagggt 240

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cacctgagcc accctcagca ggagctgggg tggccctga gctccaacgg ccataacagc 300
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gggttggttg agttgcctag aaccctgcc agggctgggg gtgagaaggg gagtcattac 420
tccccattac ctagggcccc tccaaaagag tccttttaaa taaatgagct atttaggtgc 480
wraaaaaaaaa aaaaaaaaaac cncggggggg gcc 514

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&lt;210&gt; 5

&lt;211&gt; 2035

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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cacgaggaat gacatgaaag cagactgtat tttgtactac ggctttggag atatattcag 60
aataagttca atggtggtga tggaaaatgt gggacagcag aagctttatg agatggtatc 120
atactgtcaa aacataagca aatgtcgtcg tgtgttgatg gctcaacatt ttgatgaagt 180
atggaactca gaagcatgta acaaaatgtg cgrtaactgc tgtaaagaca gtgcatttga 240
aagaaagaac ataacagagt actgcagaga tctaatacaag atcctgaagc aggcagaggg 300
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tgcagcaaaa ctgagagtag caggtgttgt ggctcccaca ctctctctgt aagatctgga 420
gaagattatt gcacacttts taatacagca gtatcttaaa gaagactaca gttttacagc 480
ttatgctacc atttcgtatt tgaaaatagg acctaaagct aatcttctga acaatgaggc 540
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tggaagata tatctataaa taaactttga actgatttca aacttaaaaa aaaaa 2035

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&lt;210&gt; 6

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



<220>  
 <221> misc feature  
 <222> (157)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (998)  
 <223> n equals a,t,g, or c

<400> 6  
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 tggaggttcc caggaggcat gttcttgatg cctgtgntgc ctgaatccaa ttaactgaat 180  
 tctgaagagt gcatggggta actgtctcag cctttctcct gtctctgcct ctgtcctctg 240  
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 caatttgcaa gtttaggcgt tgagttccag agagggatgg tagcttgctg aggtcccagt 360  
 caagcacact tgccattgcc tcagctttcc cctaaacacg gtgtctgtgg tcaggggttg 420  
 tgaggaggag ctttctgtt ttgcctctcc ttcttcccat tggctacacc catctyggc 480  
 cctgctgata ccgattcccc tgacatttca ggctaaagcc agcaggraag ggctagggac 540  
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 gcctcctaga ttaaggcctg cctggaatgg attgggggtg ggtctttgga aaaggagggg 720  
 acccacctct agcccagtc ctcaactgcc cctcctttac agtgagttag atcattggcc 780  
 gagacctgag tggcttccct gcacctcctg gagaagagcc tcctgcctga accacgtgaa 840  
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 ccagaatgga ctggagtga ggcgtgtcta gagtgtggc tggctgttgt gctggaaagc 1140  
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<210> 7  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
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 atcattatat aggtatgtct ttgcttccat tttgagacat ttagattttt acagcctgtt 120  
 tctatagcat ttgatgttac aactctaagc gtagttcaaa gacattttaa ttgacaagtt 180  
 accagttaaa gaatttagaa tatattagat cccatctagt attatatatt ttttctagtt 240  
 gatcattgag cagtaaatca caaatactcg attagaaggt aatttttaca ttgttttgaa 300  
 aggggtgaamc aatttatctc ctctgggtatt attcttaaac cacagatagg gatagtaggg 360  
 tagtgaaacg mataaatacc tggtagaaga caagagactt gggctctaca cctggctctg 420  
 cactgatttg ctaagtcata ttggcaatca ccacaccctt caggggaatta gtttcatctg 480  
 taaaatgcag cggtagtagc tatwaaatca tacmaatttc tttgtgcttt gagaatctwt 540  
 aarggaatgt ctgttgatat tctgagtcga ttttcatttg cttttgttcc agaacggtta 600  
 aaataaagca tattatttca tttta 624

<210> 8  
<211> 301  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 8  
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cagtccttga tccgacaggc cagagtgtca atgcgcccc tgctatccag ccattggatg 180  
acgaggatgt atttctctgc ggaagtgtga agaagcaatt caactcgtg ccagcggtta 240  
tgaccacaaa gcgggaacag tgccagggga atgccccgc cctggccana gtctcactgg 300  
c 301

<210> 9  
<211> 686  
<212> DNA  
<213> Homo sapiens

<400> 9  
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cagctgttca tccatttcgt gttttttcct gtcaaacatt aatccagcaa atatatgagg 180  
tatttaccaa tttattttct tagtattaca aaataattca ttagcataaa gtacaatagt 240  
gaaatatttg agttgttcgg aacctcaatt aatcctgttt tacatttcag acctaaagct 300  
ggcaatcagg agaagaagca ctttgtttta aatgtggaga agataacacc ttgattccat 360  
ttcattgtca ttagtgtatt aaccagcagg agaggtgatg agccattttt caaatgaaat 420  
accttttatt tccatataat ttttttattt tagagttcaa tagctgtttc tatgattatc 480  
ctcaatttcc atatgttact gaatctgaaa aacatcttta aaattcaaac agttccattt 540  
tctctcttgt aagtgttaaa tgtgataaaa gtacatattt taaattgttt tcagctcttg 600  
gatatagcag caataaaaac actaatttgt gggattttaa gaaaacctgg agaataaact 660  
catactttaa aagatcaaaa aaaaaa 686

<210> 10  
<211> 397  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<400> 10  
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cygggcgagg agcgcctcta caacccttc ctgcgggtgg cgtgagtatg gctgttgtcc 180  
cggggcctcc accgttacgt ggacccttag gaaggcatct ggggactgag tgttgggctg 240  
agtgagcatc tctggcttgg gggaggctgc tcattaagtg cctgcctgcc cgscamccc 300  
tcggcgccat gctccgcgt gggcagcggg cctgcgcct cactgcaccc ctccctgcag 360  
agaggagccg gtgcgcaant ttcacgggca aggnngt 397

<210> 11  
<211> 563  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (562)  
<223> n equals a,t,g, or c

<400> 11  
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ctcttcaata catgaatgga aacttaaatt tttttttat gtgtccttgc ttatagttaa 180  
gctgtaataa ttttaacctg tattcttctg ccatattctg tctttttatt acttataaag 240  
acaaaccaa gtaaatctga aggagacyag aagctttgaa attattgttt gggggtttta 300  
taaaagcaac tactgtcacc tccatccaga ttcttttaaa ttattgatcc atccatagta 360  
tatattgcta ctattcaag aatcctcaat aagtattgag tatttaccat atgttgggat 420  
actgtgggct ctggagagag gagggggcaa tagagctagg rattaaggaa tcagttgwt 480  
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agaaaggggg atgaaaaaaa ant 563

<210> 12  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
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 gtcacgccc acgtggactc cggaaagtcc accaccacgg gccacctcat ctacaaatgc 180  
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 gcagtgcctga tcgtggcggc ggg 443

<210> 13  
 <211> 2438  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (117)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (681)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (713)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2413)  
 <223> n equals a,t,g, or c

<400> 13  
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 cgggtgtggg ttcccaactc cggcctaggc acctccccgc tctccctgtc acgstcatgt 480  
 cctgtcctgg tctgtatgcc cggtgtctag gagacagagc caagcactgc tcacgtctct 540

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gccgcctgcg tttggaggcc cctgggctct caccagtc ccacccgcct gcagagaggg 600
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gaggcctggc caatgcggcc nactttcctg agctgtcgct gcctccatgg canagccarg 720
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&lt;210&gt; 14

&lt;211&gt; 2347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

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gtgaagtaga aaatgcagtt gaatcatgga gaacttcagt agaaactgct ctgagagctt 480
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2347

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&lt;210&gt; 15

&lt;211&gt; 2006

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (862)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1006)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 15

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ggcagagctg taccagtggc agcagcaagc cgaatagccc cagcatttcc ctttcaatac 60
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<210> 16

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (985)

<223> n equals a,t,g, or c

<400> 16

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caaaaccagc tgccacgata cgcacgtgc agggactggg agtgatgcct cccaaagcag 180
gccagaccat caccgttgca acccagcca agcaaggggc ctggtggcc agtgggtctg 240
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gcggcaggtc cctgtcagca ccacggttgt gtccacgtcc caggctggga agttgcctac 420
acggatcaca gttcccctct ctgtgatcag ccagccaatg aagggaaga gcgtgggtcac 480
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cctcacaact atgccagcag gcaactaagc cattgtggc aataagcctg ttagtttcct 600
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<210> 17

<211> 1589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<400> 17

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ttcgaagctc agcccccccc cctcattttg gatataggtc agtgaaggcc caggagagg 180
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gagtcagggt tggggttcgt ggaaggggtg ctgcttcct ctgcctgtcm ctctcaggca 480
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agaaagaaaa ataaaaaaa aaaaaaaaaa 1589

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<210> 18

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 18

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gcgcccattg tgccactgca ccagaagcag agccgcatca ccccatcca gaagccgcgg 120
ggcstcgacc ctgtggagat cctgcaggag cgcgagtaca ggctgcaggc tcgcatcga 180
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agaagatcga gcaggagcgc aagcgccggc agaagcacca ggaatacctc aatagcattc 480
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cggtatg
846

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<210> 19  
<211> 2192  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2106)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2118)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2143)  
<223> n equals a,t,g, or c

<400> 19  
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ggttgatgga gggtggagtt gctggtcctc ttggagcccc tgtgtccaag ggaagaaaac 360  
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aacgacagaa agcacacaat gcgaagatga ggagctggag cacttgaggt tgcttgaacc 480  
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2192

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&lt;210&gt; 20

&lt;211&gt; 1011

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (54)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 20

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gacagtttta ccgcattccr tccactcccg attccttcat ggatccggcg tctgcaacttt 180
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gctatgctga tggagagagc ttcctcggtt atgtggacat gcttgggtga gcctatgaag 600
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&lt;210&gt; 21

&lt;211&gt; 2019

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2003)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2007)

<223> n equals a,t,g, or c

<400> 21

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aaaaaaaaat tctcgggggg ggnccngta cccaattgg 2019
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<210> 22

<211> 2022

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 22

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tgtgacgcca ctcaccttta ctgaggtgca cgagggccgt gctgacatca tgatcgactt 180
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<210> 23

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 23

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<210> 24

<211> 2598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2553)

<223> n equals a,t,g, or c

<400> 24

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agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
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gattgacttc aagcctcgag ccagcatgga tactgtccat cacatgttac tttttggatg 300
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&lt;210&gt; 25

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 25

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ctctgagctc caggtcacaa tgcacgacac ccggggccgc agtcccccat accagctnng 360
actyccangg ggcgcctggt ngctggnytg anggccark tggcgacgag c 411
```

<210> 26

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 26

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cagccccctt tcccttcctc cattgcacat gaacatatgt ccatccatat atattcatca 180
gaatgttaat ttattttgct ccctctgtta ggtccatttt ctaagggtag aagaggcaag 240
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tctgcacgtt gctgaaggtc caggcttgcc tcaagttcca tgcttgagca ataaagtgga 600  
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<210> 27

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 1333

<212> DNA

<213> Homo sapiens

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<221> misc feature  
<222> (1311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1319)  
<223> n equals a,t,g, or c

<400> 28  
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tggccatctt cgggcccccc aacacctact acgaggggcg ctacttcaag gcgcgcctca 180  
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<210> 29  
<211> 1327  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1325)  
<223> n equals a,t,g, or c

<400> 29  
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<210> 30  
<211> 709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (696)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (701)  
<223> n equals a,t,g, or c

<400> 30

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&lt;210&gt; 31

&lt;211&gt; 1108

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (389)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (397)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 31

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tgcttatect tgtgtgatg tttgtggtat ggatgaaacg ccgggataaa gaacgccagg 60
ccaaacaact ttaattgat ccagaagatg atgtaagaga taatatatta aaatatgatg 120
aagaaggtgg aggagaagaa gaccaggact atgacttgag ccagctgcag cagcctgaca 180
ctgtggagcc tgatgccatc aagcctgtgg gaatcygacg aatggatgaa agacccatcc 240
acgccgagcc ccagtatccg gtccgatctg cagccccaca ccctggagac attggggact 300
tcattaatga gggccttaaa gcggctgaca atgacccac agctccacca tatgactccc 360
tgttagtgtt tgactatgaa ggcagtggnt ccactgntgg gtccttgagc tcccttaatt 420
cctcaagtag tgggtgtgag caggactatg attacctgaa cgactggggg ccacggttca 480
agaaacttgc tgacatgtat ggtggaggtg atgactgaac ttcaggggtg acttggtttt 540
tggaacaagta caaacaattt caactgatat tccccaaaag cattcagaag ctaggcttta 600
actttgtagt ctactagcac agtgcttgct ggaggctttg gcataggctg caaaccaatt 660
tgggctcaga gggaatatca gtgatccata ctggttgga aaacactgag ctgagttaca 720
cttgaatttt acagtacaga agcactggga ttttatgtgc ctttttgtac ctttttcaga 780
ttggaattag ttttctgttt aaggctttaa tggtagtgat ttctgaaacg ataagtaaaa 840
gacaaaatat tttgtggtgg gagcagtaag ttaaaccatg atatgcttca acacgctttt 900
gttacattgc atttgctttt attaaaatac aaaattaaac aaamaaaaaa actcatggag 960
cgattttatt atcttggggg atgagaccat gagattggaa aatgtacatt acttctagtt 1020
ttgacttta gtttgttttt tttttttttt cactaaaatc ttaaaactta ctcagctggt 1080
tgcaataaaa gggagttttc atatcacc 1108

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&lt;210&gt; 32

&lt;211&gt; 526

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (502)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (524)  
<223> n equals a,t,g, or c

<400> 32  
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tgagccagtt attattagag ttgcagaata gaaacttgaa gtgctaaatg gaataatcca 180  
aaggaaaattt tttaaagca ggttctagct gaaaaattca actataagaa aattgtattt 240  
atataacatt tactattttt gaagactagt gagatttctg taataatttt aattctttaa 300  
aaagtgaag cttgttgtaa agatattttc tttttgttat tagaaggaaa tacaaagaga 360  
aaaaatttctt tctttcatgg ggcatttgat aatttcagtc tttgacgatt tgtaagccta 420  
gaatatacta agctgaataa cagctcttgg gcctcagaat tttccagtag ccagtawttc 480  
yggattaact aagttggaaa cncytattag gaacctccag tggnga 526

<210> 33  
<211> 555  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (494)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (521)  
<223> n equals a,t,g, or c

<400> 33  
ccggaccctg caccagcga ctgggccccg cgcgcgccct ccgcgagggt ggaggcggcg 60  
gctgtgtgcg cagggcccg caccggactg ggaccctggc gtccctccag gccttgccctc 120  
ctgcgggags acagtttggc ttcacttctc tgacccagc ctcggccgta aagtgaagaa 180  
gaccggacca gcttcagctt tcggactctg gttcttggat cgtgtcctct cccctcgcg 240  
gccctcttcc cccaatctga gccattkacg gcctctgcct gckgccccct ctctcctcgg 300  
gatcgggtcc ccagagccac catctcctga gcctcccacc ccgctgcctg ggccctgtgg 360  
ttgctgggcc tcccacctca aggaggggaa ggtgtacag cccgaacctg tggagcaatg 420  
ccctgtctgg cctccaaaac caaaaataaa ctgggtcact ttacaaaaaa aaaaaaaaaa 480  
aagggccccg gaanaccgga ccggtacctg caggcgtacc ngtttcccta tagtgagttg 540  
tattagcgtt gcata 555

<210> 34  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (288)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (328)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (335)  
 <223> n equals a,t,g, or c

<400> 34  
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 gggggtggag gcggctcctg cratctaaag ggacttgaga ctctcaccgg ccgcgcgcca 120  
 tgagggccct gtgggtgctg ggcctctcct gctcctgct gaccttcggg tcgggtccgar 180  
 ctgaygatga agtcgatgtg gatggtacag tggaagagga tctgggtaaa agtagagaag 240  
 gttcaaggac agatgatgaa gtagtacaga gagaggaaga agctattnca gttggatgga 300  
 ttaaatgcat cccaaataag agaacttnag agagnaagtc cagaaaa 347

<210> 35  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (701)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (731)  
 <223> n equals a,t,g, or c

<400> 35  
 ggggtggttc cttgtggttc ctcagtgggtg cctgcaaccc ctggttcacc tccttccagg 60  
 ttctggctcc ttccagccat ggctctcaga gtccttctgt taacagcctt gaccttatgt 120  
 catgggttca acttggacac tgaaaacgca atgaccttcc aagagaacgc aaggggcttc 180  
 gggcagagcg tgggtccagct tcagggatcc aggggtggtg ttggagcccc ccaggagata 240  
 gtggctgccca accaaagggt cagcctctac cagtgcgact acagcacagg ctcatgagag 300  
 cccatccacc tgcagggtccc cgtggaggcc gtgaacatgt ccctgggcct gtccctggca 360  
 gccaccacca gccccctca gctgctggcc tgtggtccca ccgtgcacca gacttgacgt 420

```

gagaacacgt atgtgaaagg gctctgcttc ctgtttggat ccaacctacg gcagcagccc 480
cagaagttec cagaggccct ccgaggggtgt cctcaagarg atagtacat tgccttcttg 540
attgatggct ctggtagcat catcccacat gactttcggc ggatgaagga rtttgtctca 600
actgtgatgg agcaattaaa aaagtccaaa accttgttct ctttgatgca gtactctgaa 660
gaattccgga ttcactttac ttcaaagagt tccagaacaa ncctaaccga agatcactgg 720
tgaagccaat nacgcagctg cttggggcgg 750

```

<210> 36

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 36

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gatatcaaga tgatcctgaa aatgggtgcag ctggactcta ttgaagattt gggaagtgc 120
ttgtacctgg aagctaccca ccttggcgaa attttctcct tacctgggcc agatgattaa 180
tctgcgtaga ctctctctct cccacatcca tgcattctcc tacatttccc cggagaagga 240
agagcagtat atgccccagt tcacctctca gttcctcagt ctgcagtgc tgcagctnct 300
ctatgtggac tctttathtt tccttagagg ccgcctggat cagttgctca ggcacgtgat 360
gaaccccttg gaaacccctt caataactaa ctgccggctt tcggaagggg atgtgatgca 420
tctgtcccag agtcccagcg tcagtcagct aagtgtcctg agtctaagtg ggtcatgct 480
gaccgatgta agtcccagcg ccctccaagc tctgtctggag agagcctctg ccacccctcca 540
ggacctggtc tttgatgagt gtgggatcac ggatgatcag ctcttgccc tcctgccttc 600
cctgagccac tgcctccagc ttacaacctt aagcttctac gggaattcca tctccatata 660
tgccttgacg agtctctctg agcacctcat cgggntgagc aatctgacct acgtgctgta 720
tcctgtcccc ctggagagtt atgaggacat ccatggtamc ctccamctgg agagggtgct 780
atctgcatgc caggntcagg gagttgctgt gtgarttggg gcggcccagc atgggtcttg 840
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cctgtgcccc tgtttcatgc ctaatarctg ggtgcacata tcaaatgctt cattctgcat 960
acttgacac taaagccagg atgtgcatgc atcttgaagc aacaaagcag ccacagtttc 1020
agacaaatgt tcagtgtgag tgaggaaaac atgttcagtg aggaaaaaac attcagacaa 1080

```

```

atgttcagtg aggaaaaaaaaa ggggagttgg ggataggcag atgttgactt grggagktaa 1140
tgtgatcttt ggggagatac atcttataga gttagaaata gaatctgaat ttctaaaggg 1200
agawtctggc ttgggaagta catgtaggag ttaatccctg ttagactgt tgtaaagaaa 1260
ctgttgaaaa taaagagaag caatgtgaag c                                     1291

```

<210> 37

<211> 1535

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1526)

<223> n equals a,t,g, or c

<400> 37

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agtacgctgg gctggaccac gagctggcct tctctcgtct gatcgtggag ctgcggcggc 120
tgcacccagg ccacgtgctg cccgacgagg agctgcagtg ggtgttcgtg aatgcgggtg 180
gctggatggg cgccatgtgc cttctgcacg cctcgtctgc cgagtatgtg ctgctcttcg 240
gcaccgcctt gggctcccg cggcactcgg ggcgctactg ggctgagatc tcggatacca 300
tcattctctg cacctccac cagtggagag agggcaccac caaaagtgaag gtcttctacc 360
caggggagac ggtagtacac gggcctggtg aggcacacgc tgtggagtgg gggccaaaca 420
catggatggg ggagtacggc cggggcgctc tcccatccac cctggccttc gcgctggccg 480
acactgtctt cagcaccag gacttccctc ccctcttcta tactcttcgc tcctatgctc 540
ggggcctccg gcttgagctc accacctacc tctttggcca ggacccttga ccagccaggc 600
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gcccatgttt acagacaggg acatacacca tgcagatcct gatttcctgc tgtatgagca 720
gggatatacca tgcttatgta tccaaacaca gagacccatg ggaacaaatg agacacatat 780
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acgagagtaa tttgaagaat gcttgaagtc agcgtcttcc attccagaaa gacccccatt 1260
cttcctttgg gggatgatg tggaaactgg ttccagccca ggaccaccca ctgaggagag 1320
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acacacacaa cacatacaca cacacacaca canacacata tcacagtttt cacacagccc 1440
ctgctgcatt ctctgtccat ctgtctgttt ctattaataa agatttggtg atctgttcca 1500
aaaaaaaaa aaaaaaaaaa aaaaangggg gggct                                     1535

```

<210> 38

<211> 295

<212> DNA



<213> Homo sapiens

<400> 38

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ctgggtcacac tattacatgc catgcaggca cgcgataaaa cgtggggct ggcaacactg 60
tgcattggcg gcggtcaggg aattgcgatg gtgattgaac ggttgaatta atcaataaaa 120
acacccgata gcgaaagtta tcgggtgttt tcttgaacat cgacggcgaa ggtaacccca 180
ttaatcacca gtcaaaactt ttcaccagcg tctctcgcca gcattacgca tcggtacaat 240
aaatgtttcc tgtttctcat tgaccgatcc ttcctcggtg atcagcgtca ttggg      295
```

<210> 39

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<400> 39

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gcggactggc agggggcagg gaagctcaaa gatctggggt gctgccaggga aaaagcaaat 60
tctggaagtt aatggttttg agtgattttt aaatccttgc tggcggagag gcccgccctct 120
ccccggtatc agcgcttccct cattctttga atccgcggct ccgcggtctt cggcgtcaga 180
ccagccggag gaagcctgtt tgcaatttaa gcgggctgtg aacgcccagg gccggcgagg 240
gcggggccga ggcgggccat tttraataaa gaggcgtgcc ttccaggcag gctctataag 300
traccgccgc ggcgagcgtg cgcgckttgc aggtcactgt agcgggactt cttttggttt 360
tctttctctt tggggcacct ctggactcac tccccagcat gaaggcgtg agcccggtgc 420
gcggctgcta cgaggcggtg tgctgcctgt cggaacgcag tctggccatc gcccggggcc 480
gagggaaagg cccggcagct gaggagccgc tgagcttgct ggacgacatg aaccactgct 540
actcccgccct gcggraactg gtacccggag tcccagagag cactcagctt agccagggtg 600
aaatcctaca gcgcgtcatc gactacattc tcgacctgca ngtagtcctg gccgagccag 660
cccctggacc ccctgatggc ccccaccttc ccatccagac agccgagctc gctccggaac 720
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cagaacgcag gtgctggcgc ccgttctgcc tgggaccccg ggaacctctc ctgccggaag 840
ccggacggca gggatgggcc ccaacttcgc cctgccact tgacttcacc aaatcccttc 900
ctggagacta aacctggtgc tcaggagcga aggactgtga acttgtggcc tgaagagcca 960
gagctagctc tggccaccag ctgggcgacg tcaccctgct cccacccac cccaagtctc 1020
taaggtctyt tcagagcgtg gaggtgtgga aggagtggct gctctccaaa ctatgccaa 1080
gcggcgccag agctggtctt ctggtctcct tggagaaagg ttctgttgcc ctgatttatg 1140
aactctataa tagagtatat aggtttttgta ctttttttac aggaagggtga ctttctgtaa 1200
caatgcgatg tatattaac tttttataaa agttaacatt ttgcataata aacgattttt 1260
```

aaacaaaaaa aaaaaaaaaa aagggggggcc gccctannng

1300

<210> 40

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 40

cagaaacaga agttcacact aacagagtat ggttttaatt ttcctttgaa tgaaaaggat 60  
agaaagataa aattgtgtat tgtaacatg taaataaaat tggagctaata ttgaaactag 120  
cttctcaata acttcacatt tctagagact cattacctgt gggcttgctm aacctggact 180  
atttggccaa atwgggttga taaaaaaggc atntt 215

<210> 41

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<400> 41

tcgacccacg cgtccgggag actacggtaa aggcgcgcgc acgcagccaa catgccgggtg 60  
gcccgagct gggtttgtcg caagnctacg tgaccctcgc gaggcccttt gagaagtcgc 120

```

ggctcgacca agagctgaag ctgataggcg agtacgggct ccggaacaaa cgtgaggtgt 180
ggaggggtcaa gttcaccctg gccaaagatcc gcaagnccgc gcgggarctg ctgacgctgg 240
acgagaagga cccgcggcgc ctgtttgagg gcaatgcctt gcttcggcga ctggtgcgca 300
ttggagtgtt ggacgagggc aagatgaagc tggattatat cctgggtctg aagatgagga 360
ttcttggaga grcntctgca gaccaggtt tttcaagctg gggttggcca atccatccac 420
catgccctgt gctgatccgc caggccacnc aggtccgaaa gcaagtgggtg aaca 474

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<210> 42

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 42

```

cctcgcccttc gatgaatatg ggcgcccttt cctcatcatc aaggatcagg atcgcaagtc 60
tcgtcttatg ggactggagc tctcaagtct catatcatgg cggcaaaggc tgtagcaaat 120
accatgagaa catcacttgg accaaatgga cttgataaaa tgatggtgga caaggacggc 180
gacgtgacgg tcacaaacga cggtgccacg attctgagca tgatggatgt cgatcaccag 240
attgccaaagc tgatggtgga gctgtccaaa tcccaggatg atgaaatcgg agatggggac 300
cacgggggtg gttgtcctgg ccggcgccct gctggaagga ggccgagcag ctgctggacc 360
gcggcattca mccgntcagg atcgccgacg gttacgagca ggntgcccgc attggccntc 420
gagca 425

```

<210> 43

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1149)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1156)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1160)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 43

```

tgtgggaact ggtgggtccc ccgggctggc agnaattggg nacgcgggtc gcggttcttg 60
tttgtggatc gctgtgatcg tcaacttgaca atgcagatct tcgtgaagac tctgactggg 120
aagaccatca ccctcgaggt tgagcccagt gacaccatcg agaattgtcaa ggcaaagatc 180
caagataagg aaggcatccc tcctgaccag cagaggctga tctttgctgg aaaacagctg 240
gaagatggkc gcaccctgtc tgactacaac atccagaaaag agtccaccyt gcacctggtr 300
ctccgtctca gaggtgggat gcaaattctt gtgaagacac tcaactggcaa gaccatcacc 360
cttgaggtcg agcccagtga cacyatcgag aacgtcaaag caaagatcca rgacaaggaa 420
ggcatttcctc ctgaccagca gaggttgatc ttgcccggaa agcagctgga agatgggctc 480
accctgtctg actacaacat ccagaaagag tctaccctgc acctggtgct ccgtctcaga 540
ggtgggatgc agatcttcgt gaagaccctg actggtaaga ccatcacycy cgargtggag 600
ccgagtgaac ccattgagaa tgtcaaggca aagatccaag acaaggaaag catccctcct 660
gaccagcaga gggttgatctt tgctgggaaa cagctggaag atggacgcac cctgtctgac 720
tacaacatcc agaaagagtc caccctgcac ctggtgctcc gtcttagagg tgggatgcag 780
atcttcgtga agaccctgac tggtaaagacc atcaactctc aagtggagcc gagtgcacac 840
attgagaatg tcaaggcaaa gatccaagac aaggaaggca tccctcctga ccagcagagg 900
ttgatctttg ctgggaaaca gctggaagat ggacgcaccc tgtctgacta caacatccag 960
aaagagtgca ccctgcacct ggtgctccgt ctyagagggt ggatgcagat ctctgtgaag 1020
accctgactg gtaagacat cacyctcgaa gtggagccga gtgacacatc ygagaatgtc 1080
aaggcaagat ccagacaagg aaggcatcct cctgaccagc agargttgat ttgctggga 1140
aaarcttgna aatggncgan cccttttgat taaaatcccg aaagttc 1187

```

&lt;210&gt; 44

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (217)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (465)

<223> n equals a,t,g, or c

<400> 44

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ctgcagtacc gtccgaattc ccgggtcgac ccacgcgtcc ggtttgagcc gtcgtgcttc 60
accggtctac ctgcctagca tgcggggccg cggcaagact ggcggaagc cccgcgcaa 120
ggccaagtgc cgctcgtcgc gcgccggcct ccagttccca gtgggcccgtg tacaccggct 180
gctgcggaag ggccactacg ccgagcgcgt tggcgcnngc rcgccagtgt acctggcggc 240
agtgcctggag tacctcaccg ctgagatcct ggagctggcg ggcaatgcgg cccgcgaca 300
caagaagacg cgaatcatcc cccgccacct gcagctggcc atccgcaacg acgaggagct 360
caacaagctg ctggggcgcg tgacgatcgc ccagggaagg cgtctgccc aacatccagg 420
ccgtgsttgy tgccaagaa gaccagcgc accgtggggc cgaangccct tcggggggca 480
agaaagggca accaaggctt cccaaggagt actaa 515
```

<210> 45

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 45

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tccacttcag ctccccggca tccgcgaggt caccattaac cagagcctgc tggccccgct 120
gcggctggac gccgacccct ccctccagcg ggtgcgccag gaggagagcg agcagatcaa 180
gacctcaac aacaagtttg cctccttcac cgacaagggtg cggtttcttg agcagcagaa 240
caagctgctg gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg 300
cctcccagac atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca 360
ggtggatggg ggccgccttg aggcggagct gcggagcatg caggatgttg tggaggactt 420
caagaataag tacgaagatg aaattaaccg ccgcacagct gctgagaatg agtttgtggg 480
gctgaagaag gatgtggatg ctgcctacat gagcaagggtg gagctggagg ccaaggtgga 540
tgccctgaat gatgagatca acttcctcag gacctcaat gagacggagt tgacagagct 600
gcagtcccag atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga 660
cctggacggc atcatcgctg aggtcaaggc rcagtatgag gagatggcca aatgcagccg 720
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gaattccact ggtggcagta gcagtggcgg tggcattggg ctgacctcgc ggggaacccat 1200
gggcagcaat gccctgagct tctccagcag tgcgggtcct gggctcctga aggcttattc 1260
catccggacc gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc 1320
```

```

cactcctcca gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg 1380
gtcccaagac agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcs 1440
tcattctgag gcctgagtga aaaaaaaaaa aaaaanaaaa aaaaaaattt tngggggggg 1499

```

<210> 46

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<400> 46

```

tcgacccacg cgtccggcag cctttctgag ggagcggttg tgtgttcgcc atcttaggaa 60
gaagatgttc tcgtccgtgg cgcattctggc cgggcgaacc ccttcaacgc gcccacctg 120
cagctggtac acgatggcct cacgggcacc gaagcagccc cgtgggnacc cccgggcncg 180
ccccgaacgt tcccgaatc tggcagcagc cgctgtggna agagtacagt tgccaatatg 240
gctccatgaa gttttatgca ctgtgtggct ttggtggggt cttaagttgt ggtctgacac 300
acactgctgt cgttcctctg gatttagtga aatgccgaat gcargtggac cccagaant 360
acaagggcak wnttaatngg attctcatta aca 393

```

<210> 47

<211> 238

<212> DNA

<213> Homo sapiens

<400> 47

```
cggatcccg ctcctgcac cagtcgccat tcgggaggcc gctgcgctgc agggcctcgc 60
ggaccgccc cgaccgcgag ccggggccctc cgcgcggtcc atcgcccact ggacgccgcc 120
cgcggccgga ccggttcaac ttctcatctt tgttcttctt catatactat aggctgtttg 180
ctgtggttta gtcaaaaagc catgtagaat gcctgccttt tgaagaccac ttttaagg 238
```

<210> 48

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<400> 48

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gccaccatct tggaaacggga ggcgagagc agtcgactgg gagcgaccga gcggggccgcc 60
gccgcccga tgaacccga atatgactac ctgtttaagc tgcttttgat tggcgactca 120
ggcgtgggca agtcatgcct gctcctgcgg tttgctgatg acacgtacac agagagctac 180
atcagacca tcggggtgga cttcaagatc cgaaccatcg agctggatgg caaaactatc 240
aaacttcaga tctgggacac agcgggccag gaacggttcc ggaccatcac ttccagctac 300
taccgggggg ctcattggcat catcgtggtg tatgacgtca ctgaccagga atcctacgcc 360
aacgtgaagc agtggctgca ggagattgac cgctatgcc a gcgagaacgt caataagctc 420
ctggtgggca acaagagcga cctcaccacc aagaagggtg tggacaacac cacagccaag 480
gagtttcag actctctggg catccccctc ttggagacga gcgccaagaa tgccaccaat 540
gtcagacagg cgttcattgac catggctgct gaaatcaaaa agcggatggg gcctggagca 600
gcctctgggg gcgagcggcc caatctcaag atcgacagca cccctgtaaa gccggctggc 660
ggtggctggt gctagsaggg gcacatggag tgggacagga gggggcacct tctccagatg 720
atgtccctgg agggggcagg aggtacctcc ctctccctct cctggggcat ttgagtctgt 780
ggctttgggg tgcctgggc tccccatctc ctctggccc atctgcctgc tgccctgagc 840
cccgttctk tmagggtccc taaaggagga cactcagggc ctgtggcagg cagggcgagg 900
gctgcttggt ctgttgccct taagtgaatt tccaaangc 939
```

<210> 49

<211> 1771

<212> DNA

<213> Homo sapiens

<400> 49

```
tctgaggctc ctggggagtc ggtgggaacg acaccagaag ctcatagaa gactggccca 60
tttgagagc actccaacca gctgtggaac atcagcgccg tcccttctctg gtccaaagtg 120
aaccagggtc tcatccgat gtataaggcc gagtgcctgg agaagtccc tgtgatccag 180
cacttcaagt tcgggagcct gctgcccac catcctgtca cgtcgggcta ggaggggcca 240
agccgaagag ccaccaggc cacagtccct gtgcctgcct tccccacccc agcagtggcc 300
cctccccatc ccctccctct gtctgctccc tttgatgaga ggctgtttac tgggggtggg 360
tggcgagatg ggcttgaggg ggctcagagc ataaggcttc agggcccaag ttgggagaag 420
tgaccaaagt gtagccagtt ttctgagttc ccgtgtgcta gactggccag aagagagggt 480
ctggggcctg gtcactcggc cactctctcc tgtttctggc ctcttctccc ttcactccc 540
```

```

tccagtctgg ttttgagagc aggggctgtt ctgcagcacc kcaggggaagg gaggagagat 600
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gtccttgca ggggcgggtc agtttcccag gccatgccgg ggtggccatc tatgctaggg 720
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cacccttcc tggtccccc atccccctat ggctcccagc cccttgacc ctcattgctg 1680
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aaaaaaaaa aaaaaaaaaa aaaaaaattt t 1771

```

<210> 50

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 50

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gggtcgaccc acgcgtccgc tcgctccggg atcgcccgcg ctagagacgc atagcgtct 60
aatcgctcgc acgcaccggc cctcgctcgc tcgcccgtcc gtgcgcgcgc cgcccagccc 120
accgccaccc ttgacagcca tgtccaccag gtcygtgtcc tcgtcytcct accgcagatg 180
ttcggcggcc ccggcaccgg nagggnccg agctccacgc gcataacgtg accagtcac 240
ccgcacctac agcctgggca gcgcctgcgc cccagcacca gccgcagcct ctamamctcg 300
tccccgggag gcgcgtatgt tcacggctcc ttccgcggtg cgcctgcgga anatgttgcc 360
ccggcggtgc gcttgctggc aggattccgt ggaattt 397

```



<210> 51  
 <211> 1635  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1422)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1617)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1620)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1629)  
 <223> n equals a,t,g, or c

<400> 51  
 gcccacgcgt ccgcccacgc gtccgcccac gcgtccgcct ctccagccct tctcctgtgt 60  
 gcctgcctcc tgccgcgcgc accatgacca cctccatccg ccagttcacc tcctccagct 120  
 ccatcaaggc ctctcccggc ctggggggcg gctcgtcccg cacctcctgc cggtctgtctg 180  
 gcggcctggg tgccggtccc tgcaggctgg gatctgctgg cggcctgggc agcaccctcg 240  
 ggggtagcag ctactccagc tgctacagct ttggctctgg tgggtggctat ggcagcagct 300  
 ttgggggtgt tgatgggctg ctggctggag gtgagaaggc caccatgcag aacctcaatg 360  
 accgcctggc ctctacctg gacaagggtg gtgccctgga ggaggccaac actgagctgg 420  
 aggtgaagat ccgtgactgg taccagaggc agggccccgg gcccgcccg gactacagcc 480  
 agtactacag gacaattgag gagctgcaga acaagatcct cacagccacc gtggacaatg 540  
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 ttgagacaga gcaggccctg cgcctgagtg tggaggccga catcaatggc ctgcgcaggg 660  
 tgctggatga gctgaccctg gccagagccg acctggagat gcagattgag aacctcaagg 720  
 aggagctggc ctacctgaag aagaaccacg aggaggagat gaacgccctg cgaggccagg 780  
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 tgcagagtgg caagagtgag atctcggagc tccggcgcac catgcaggcc ttggagatag 1020  
 agctgcagtc ccagctcagc atgaaagcat ccctggaggg caacctggcg gagacagaga 1080  
 accgctactg cgtgcagctg tcccagatcc aggggctgat tggcagcgtg gaggagcagc 1140  
 tggcccagct tcgtgcgag atggagcagc agaaccagga atacaaaatc ctgctggatg 1200  
 tgaagacgcg gctggagcag gagattgcc aaccaccgg cctgctggag ggagaggatg 1260  
 cccacctgac tcagtacaag aaagaaccgg tgaccaccgg tcaggctcgt accattgtgg 1320  
 aagaggtcca ggatggcaag gtcattctct cccgcgagca ggtccaccag accaccgct 1380  
 gaggactcag ctaccccggc cggccaccca ggaggcagg angcagccgc cccatctgcc 1440  
 ccacagtctc cggcctctcc agcctcagcc ccctgcttca gtcccttccc catgcttct 1500

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tgcctgatga caataaagct tgttgactca gctaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanttn 1620
gggggggggnc ccccc 1635

```

<210> 52

<211> 1780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1780)

<223> n equals a,t,g, or c

<400> 52

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ccgccgccgc cgccgccgcc ggagctctgt agtatggcat cgaggagaat ggagaccaa 60
cctgtgataa cctgtctcaa aacctctctc atcatctact ccttcgtctt ctggatcact 120
ggggtgatcc tgcgtgctgt tggagtctgg ggcaaaactta ctctgggcac ctatatctcc 180
cttattgccg agaactccac aaatgctccc tatgtgctca tcggaactgg caccactatt 240
gttgtctttg gcctgtttgg atgctttgct acatgtcgtg gtagcccatg gatgctgaaa 300
ctgtatgcc a tgttctgtc cctgggtgtc ctggctgagc tcgtagctgg catttcaggg 360
tttgtgtttc gtcatgagat caaggacacc ttcctgaagg cttacacgga cgctatgcag 420
acttacaatg gcaatgatga gaggagccgg gcagtggacc atgtgcagcg casctgagct 480
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tcccccccag ctgctgcatg aacgaaactg attgtaatcc ccaggatcta cacaatctga 600
ctgtggccgc caccaaagtt aaccagaagg gttgttatga tctggtaact agtttcatgg 660
agactaacat gggaatcatc gctggagtgg cgtttggaat cgcatctctc cagttaattg 720
gcatgctgct ggcctgctgt ctgtcccggc tcatcacggc caatcagtat gagatgggtg 780
aaggagaagt cttcaagaa tgacggaata agagacctgt tttaaaagg aactgcagca 840
atctttgaaa gacttccaaa gaatgttaga gcacagtaca taatacactt gccctgctcc 900
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tgccacacac ctttaagtag ataagcagac gatagttatc tgttcttttg acttaatctc 1260
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gaaactgaac ttgaggtggc ctcccttgctt gttacatacc tgggtatgtg taggcagttt 1440
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ttcttgtaaa ggccatgata ttttgttttt ccccaattaa ttgctattgt gttattttac 1560
tacttctctc tgtatttttt cttgcattga cattatagac attgaggacc tcatccaaac 1620
aatttaaaaa tgagtgtgaa gggggaacaa gtcaaaatat ttttaaaaga tcttcaaaaa 1680
taatgcctct gtctagcatg ccaacaagaa tgcattgata ttgtgaacat ttgtgatata 1740
tgtattaata aatagagcaa ttacaagcaa aaaaaaatgn 1780

```

<210> 53

<211> 490

<212> DNA

<213> Homo sapiens

&lt;400&gt; 53

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gggggggtgg ggatccagct tattctttta ttttcaagtc cattcttggg gctggtgggg 120
aggcaggaga ataccctcc ctaagccctt agtgtgtgcc gagcttgctt tgtgatgttg 180
gcaggggagg ggagacctgg gtggtgactg agttcccttt atcaaaccct tcaatgggca 240
caaaattgag tgcttgattt taggttttat tttttatga atgtccaaat ctgtgtttcc 300
ccctgccctc ccagactgtg tggccagttg aaagtgtctg gtttgtgttc atctctccct 360
catttctgga gcagggcctg agaccctgcc acatctccta tgctctgcat ccacgcctct 420
tttgacatt aaaggttgat tgatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa 490
```

&lt;210&gt; 54

&lt;211&gt; 1944

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (466)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (634)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1308)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 54

```
acggtagcga attccccggg cgacccacgc gtccgacccc ggacccggag tcgcggagag 60
ctgggcagtg ttggccgctg gcggagcgct ggggcagcat gaagtgcctg gtcacgggcg 120
gcaacgtgaa ggtgctcggc aaggccgtcc actccctgtc ccgcacggg gacgagctct 180
acctggaacc cttggaggac gggctctccc tccggacggt gaactcctcc cgtctgtcct 240
atgcctgctt tctctttgcc ccgctcttct tccagcaata ccaggcagcc acccctggtc 300
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tggtggtcca gctgcattgc aagttcgggg tgcggaagat camaantgt ccttcmagga 480
ctgtgagtcc ctgcaggccg tcttegaccc agcctcgtgc cccacatgc tccgcgcccc 540
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tgccaaagcc atggtgactg agatgtgcct tggagaggag gatttccagc agctgcagge 720
ccaggaaagg gtggccatca ctttctgcct caaggaattc cgggggctcc tgagctttgc 780
agagtcagca aacttgaatc ttagcattca ttttgatgct ccaggcagge ccgccatctt 840
caccatcaag gactctttgc tggacggcca ctttgtcttg gccacactct cagacaccga 900
ctcgcactcc caggacctgg gctccccaga gcgtcaccag ccagtgcctc agctccagge 960
tcacagcaca cccaccccg acgactttgc caatgacgac attgactctt acatgatcgc 1020
catggaacc actataggca atgagggtcc gcgggtgctg ccctccattt ccctttcacc 1080
tggcccccag cccccaaga gccccggtcc ccactccgag gaggaagatg aggctgagcc 1140
```

```

cagtacagtg cctgggactc cccacccaa gaagttccgc tcaactgttct tcggctccat 1200
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gaaggctgaa ccaagaacct gaagcctgta cccagaggcc ttggactnag acgaagcccc 1320
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atactctttg gcgctgactt ggaattctaa gacgcttggc cccgagtgtg tggctagggt 1800
tgccctggct ggggcccggg gccgagactc ccaagcggst ctgtgcagaa gagctgccag 1860
gcagtgtctt agatgtraga cggaggccat ggcgagaatc cagctttgac ctttattcaa 1920
gagaccagat gggtttgccc cagg                                     1944

```

&lt;210&gt; 55

&lt;211&gt; 994

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (896)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (971)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 55

```

ccccgtgcg cagtaccggg tccgcgctg tccccgaaac ttcgcacccc gtcgaaactct 60
cgcgagagcg ktatctgctg gtccggacgt gcggaggctc tcaactttccg tcatggcgct 120
gaaggtagcg accgtcgccg gcagcgccgc gaaggcgtgc tcgggccagc ccttctctgc 180
cgtccctggg aggttctagg cgcccacgag gtcccctcga ggaacatctt ttcagaacaa 240
acaattcctc cgtccgctaa gtatggcggg cggcacacgg tgaccatgat cccaggggat 300
ggcatcgggc cagagctcat gctgcatgtc aagtccgtct tcaggcacgc atgtgtacca 360
gtggactttg aagaggtgca cgtgagttcc aatgctgatg aagaggacat tcgcaatgcc 420
atcatggcca tccgccggaa ccgcgtggcc ctgaagggca acatcgaaac caaccataac 480
ctgccaccgt cgcacaaatc tcgaaacaac atccttcgca ccagcctgga cctctatgcc 540
aacgtcatcc actgtaagag ccttccaggc gtggtgacct ggcacaagga catagacatc 600
ctcattgtcc gggagaacac agagggcgag tacagcagcc tggagcatga gagtgtggcg 660
ggagtgtgtg agagcctgaa gatcatcacc aaggccaagt ccctgcgcat tgccgagtat 720
gccttcaagc tggcgagga gagcgggcgc aagaaagtga cggccgtgca caaggccaac 780
atcatgaaac tgggcgatgg gcttttctc cagtgtgca gggaggtggc agcccgytac 840
cctcagwtca ccttcgagaa catgattgtg gataacacca ccatgcagct ggtgtncgg 900
ccccagcagt ttgatgtcat ggtgatgccc aatctctatg gcaacatcgt caaacaatgt 960
ctgcgcggga ntggtcgggg gcccaagctt gttg                                     994

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&lt;210&gt; 56

&lt;211&gt; 328

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (156)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<400> 56  
gggtcgaccc acgcgtccgc ccacgcgtcc ggatgacttc attgccaaag ttgttcaaag 60  
gtagccttgg ccctttttca tctgagtccc atttagagat gtataaagaa tggtgttgag 120  
tanggccggg tggtcacgc ctgtaatecc cacacnttgg gaaggccgan gcaggcggat 180  
cacgaggtca gaagattgag accattcttg ctaacatggt gaacccccat ctctactaaa 240  
aatacaaaaa ttagtcaggc gcgatggcgg gcacatgtag taccagctac tcgggaggct 300  
gatgcagaag aataacttgg aacctggg 328

<210> 57  
<211> 1489  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (710)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1206)  
<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1211)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1218)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1264)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1311)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1446)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1467)  
 <223> n equals a,t,g, or c

<400> 57  
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 gctgaagggc ctcgagttcc ttccagagac tgtatttgac acactttagg tacacacaaa 120  
 cgaatggtat cacatgcaat attttaatgg agcaatggga gaggctcttt gaaatggggg 180  
 ttgcatcttt ttgtaacatt ttgatttctc tgggtgcctta ttcctacttg atgctggcac 240  
 tcacataccc acaagaagct gacacagaag tcagccttag gcgtggggac atatgggtga 300  
 tgtttgagca tgcagggggc atggggagtt tgggtgtcagt tgggtggagaa gggactagat 360  
 ggcattctct agccgaggcc aacaggaact gcacaagtcc attatagtca aagttagcaa 420  
 ttttgatacg taaacacaat acttcattct tcctcatctg agctttcctt ccttcttctt 480  
 tttctatctc taccttctca taaagggtgct gctgctgctg ctaagggtgcc cggagtccag 540  
 aatgtccatt aatcactcag gcacgagcct ggcactgcca cgtcagcccc cagcatgacc 600  
 aaaccaggt ttctcttgct tggggctgag aactgtcaga tttttctcat caaaaatggt 660  
 ttccaaggaa tcagtggatt acagtttttc tgcattgaaa atgcactttn aaaaaataaa 720  
 ttaaagctcc agactgttta aaatatacag agggagcagg ggaaagttaa gcatgtgcta 780  
 gtgtctgaac ccagttcagt ttatctccag ttgaaacgat atacactata ttatgtataa 840  
 atgtatacac acttcttata tgtatccaca tatatatagt gtatatatta tacatgtata 900  
 ggtgtgtata tgtgcatata tacacacatg cacataacaa aatcagatgc tcattacaaa 960  
 tccagatgct cattacaaaa ccagatgcta cacaaacagc agcagaggaa acaagggttg 1020  
 actcttgcaa cagatcacia aaaataaaaa cagctacttg cagtgacttt ggtcatttct 1080  
 gtatgttcat aaagaatgga ttgtgaacna ggaaaanaag gaccagtgtt agtgaaaagg 1140  
 gaagatgggg cgaaccatct tgatccgatg cgaatccgta atgggtctata tacatttcat 1200

```

cagtantcat ntagtcangt gattgattca gttctgctat gaaacattgt aacacgtacc 1260
cacnactgac aactactcgt gagcgttcat taggagtgac ctaactttgc ntgcctgctc 1320
atgggacgag ctccttaggt ggagataccg gggaaatagag aaagatgcac gtctctgcgt 1380
tgtcgcgtgc tttgaggggc ggtctttacc ttccgtgttg gagtcctccc tgagtcgggc 1440
gctggntgcg ggacacggcc cttctcngtg tcccaggcgc tgcttcatt 1489

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<210> 58

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1263)

<223> n equals a,t,g, or c

<400> 58

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aggtaatttg aattgagaga gagtaagtga cttgctgnaa aaagggttaa tcaacagcag 60
agctgggatt tgaaccata actctgtcaa agcctccact cctaactcct gttcatgctc 120
ctgtggagaa aatgcttgta gtaacatatt ttaaattgtac taacaagacc agtcatgggm 180
aaatgtttct gagacaaatc tctagtttat gatttaaaac agtacgtttt cttacgtgac 240
gaaaacaaaa agtgtgttaa tttgttccca gtggttgaag ttatttgcca acaattttac 300
tgtttctctt catctgttta taggatttct ctgcctcttc caaacttttc ctccctgaac 360
ctgaggggta agcattttat ttccctttag gaaaaacgtc agctgcttgt aaccactgtg 420
tttatgtcaa agcattcatt ttttttagga tatctgaaaa aatgccatat aagaaaaaam 480
tctataaaac atctatwatt ttcgaaccca agtacactct tgcattctaw gctttaagtt 540

```

```
aaatgcaaan tcctttttcc ttcttctctgc tgcaagtact atctcatcct gatgctcaag 600
agtgtcaggg cctgggtttc caaacagaga ctaccctaaa attatttggc gagtagtact 660
ttacacaatt gcctctcccc cacaaatcat aattgtttca gtaaaatggg tacttggttt 720
ttccaagaaa aaactcgttt ttactcattt ttggcctgtt tgtttattta gaaactaatc 780
tggttctact ccctctggtt gataccctact caaaaaggac acttctgatt aagacggttg 840
aaactagaga tggacaggtt atcaacgaaa cttctcagca tcacgatgac cttgaataaa 900
aattgcacac actcagtgc gcaatatatt accagcaaga ataaaaaaga aatccatata 960
ttaaagaaac agctttcaag tgcctttctg cagtttttca ggagcgcaag atagatttgg 1020
aataaggaata agctctagtt cttacaacc gacactccta caagatttag aaaaaagttt 1080
acaacataat ctagtttaca gaaaaatctt gtgctagaat actttttaaa aggtattttg 1140
aatacatta aaactgcttt tttttttcca gcaagtatcc aaccaacttg gttctgcttc 1200
ataaatctt tggaaaaact maaaaaaaaa aaaaaaaam mngggggggn gcccggggtn 1260
ccnccggggg gcccaagttt tac 1283
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<210> 59

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 59

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agaaggagcg cggggaggac gtaccttgtg agatgcgagc cggccaacag cttgcaagca 60
tgctccgctg gacccgagcc tggaggctcc cgcgtgaggg actcggtccc cacggcccta 120
gtctcgcgag ggtgcctgtc gcaccagca gcagcagcgg cggccgaggg ggcgcgagc 180
cgaggccgct tccgcttcc tacaggcttc tggacgggga ggcagccctc ccggccgctc 240
tctttttgca cgggctcttc ggcagcaaaa ctaacttcaa ctccatcgcc aagatcttgg 300
cccagcagac aggccgtagg tgctgacggt ggatgctcgt aaccacggtg acagcccca 360
cagcccagac atgagctacg agatcatgag ccaggacctg caggaccttc tgccccagct 420
gggcctggtg ccctgcgtcg tcgttgacca cagcatggga ggaaagacag ccatgctgct 480
ggcactacag aggccagagc tgggtggaac tctcattgct gtagatatca gccagtgga 540
aagcacaggt gtctccact ttgcaacctt tgtggcagcc atgagggcca tcaacatcgc 600
agataggctt gccccgctcc cgtgcccga aactggcgga tgaacagctc agttctgtca 660
tccaggacat ggcctgctcg cacacttgct tcaatnaacc tggtagaggt agacgggcgt 720
tttcgtgttg gaggtggaa 740
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<210> 60

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature



&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1211)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1283)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 60

```

actttnnccc ctcccccttt cctttcccggt ctcacgcgcc aggccgcttg cacatgcgca 60
ttaggtagaa agcctcgctc tttgtcccca tctgtcggtc acacgaactc aagcctttgg 120
cattcggcag ccaatagaat ctaaganatg gcggaaaaat gattccgcct cgggagctaa 180
acttgattgg cagtttagct aaccaatcga gaacgccatt tgtamccctt ggcaggcamc 240
gagctccgtc gtctcgtttc cggcgggtcg gcgctctttt ctcgggacgg gagaggccgt 300
gtagcgtcgc cgttactccg aggagatacc agtcggtaga ggagaagtcg aggttagagg 360
gaactgggag gcactttgct gtctgcaatc gaagttgagg gtgcaaaaat gcagagtaat 420
aaaactttta acttgagaa gcaaaacat actccaagaa agcatcatca acatcaccac 480
cagcagcagc accaccagca gcaacagcag cagccgccac caccgccaat acctgcaaat 540
gggcaacagg ccagcagcca aaatgaaggc ttgactattg acctgaagaa ttttagaaaa 600
ccaggagaga agacctcac ccaacgaagc cgtctttttg tgggaaatct tcctcccgac 660
atcactgagg aagaaatgag gaaactatct gagaaatatg gaaaggcagg cgaagtcttc 720
attcataagg ataaaggatt tggctttatc cgcttggaac cccgaaccct agcggagatt 780
gccaaagtgg agctggacaa tatgccactc cgtggaaagc agctgcgtgt gcgctttgcc 840
tgccatagtg catcccttac agttcgaaac ctctctcagt atgtgtccaa cgaactgctg 900
gaagaagcct tttctgtgtt tggccaggta gagagggctg tagtcattgt ggatgatcga 960
ggaaggccct caggaaaagg cattgttgag ttctcaggga agccagctgc tcggaagct 1020
ctggacagat gcagtgaagg ctcttcctg ctaaccacat ttctcgtcc tgtgactgtg 1080
gagcccatgg accagttaga tgatgaagag ggacttcag agaagctggt tataaaaaac 1140
cagcaatttc acaaggaaag agagcagcca ccagatttg cacagcctgg ctcttttkga 1200
gtatgaatat ngccatgcgc tgggaaggca ctcatgaga tggagaaagc agcctggggg 1260
gacaagaagt gaagactcct gnttccaaaa a 1291

```

&lt;210&gt; 61

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (856)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (886)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 61

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ctgcagtacc ggtccggaat tcccgggtcg acccacgcgt ccgggtctgt ggtcctctct 60
cggctcctcg cggctcgcgg cggccgacgg ttcctgggac acctgcttgc ttggcccgtc 120
cggcggtctca gggcttctct gctgcgctcc cggttcgctg gacgggaaga agggctgggc 180
cgccccgtcc cgccccatc ggaaccccaa gtcgcgcgcg tgacctgctg cagggcgaga 240
tgagcgcgga cgcagcggcc ggggcgcccc tgccccggct ctgctgcctg gagaagggtc 300
cgaacggcta cggcttccac ctgcacgggg agaagggcaa gttgggccag tacatccggc 360
tggtggagcc cggctcgcgg gccgagaagg cggggctgct ggccgggggac cggctggtgg 420
aggtgaacgg cgaaaacgtg gagaaggaga cccaccagca ggtggtgagc cgcattccgcg 480
ccgcactcaa cgccgtgcgc ctgctggtgg tcgaccccgga gacggacgag cagctgcaga 540
agctcggcgt ccaggtccga gaggagctgc tgcgcgcca ggaagcgccg gggcaggccg 600
agccgcccgc cgccgccrag gtgcaggggg ctggcaacga aaatrarcct cgcraggccg 660
acaagagcca cccggagcag cgcgagcttc ggcctcggct ctgtaccatg aagaagggcc 720
ccagtggcta tggcttcaac ctgcacagcg acaagtccaa gccaggccag ttcattccgt 780
cagtggacc agactccccg gctgaggctt cagggtctcg ggcccaggat cgcattgtgg 840
aggtgatgct tctcgnctt ctctctatct gaactgcccc caaccnctgc agattagcag 900
caccttgggg cagccatcat accatcatgg ggtttgatta gcccacgggc attagccaac 960
ctgggaggtt g                                     971
```

&lt;210&gt; 62

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (563)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (598)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 62

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gggtcgaccc acgcgtccgg cagaaatgaa ggaccacctg ccaagacgaa gagctgggtg 60
ggaccacgc tgcattttca tcgaaagagt gaacatctag tgggactgaa agttctttgt 120
tgtttcagat tgtagagtgt gattgatgga attggtctgt ggaaattgca ttgtttttat 180
ttctttatgt aatcagttta agtaataggg ggtatatata atcgtaagta ttttaggggtg 240
ggaggggcta ttaagtaatt aagtgggtgg ggttagttta aaagtttagc tgatatgtat 300
tagataactc tataagtgga catgtgtact tacttgtgat cctttaccct atgattgcta 360
cccttaacga tttcaataa actcagaggg aactgcaggg agatcaaacc atttagggca 420
aattggacat gaataaaact ctagtgggaa aaagttcaaa ggtgattgaa taaataattt 480
aactttgccc tgggtattaa gtccagggct cccagattgt ggagcagagc cttggagagt 540
acaggatgaa ggagatagat gncctttga cttgccggga atgaaattgg attaatgnaa 600
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ggatggtaaa taattcca

618

&lt;210&gt; 63

&lt;211&gt; 1138

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (22)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (27)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1123)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 63

tctatanatc atganaggaa anggtancng acagtacggt cggattcccc ggtcgaccca 60  
cgctccgatg acttcacccc tctggagatc ctctggacct tctccatcta cctggagtca 120  
gtggccatct tgccgcagct gttcatggtg agcaagaccg gcgaggcgga gaccatcacc 180  
agccactact tgtttgcgct aggcgtttac cgcacgctct atctcttcaa ctggatctgg 240  
cgctaccatt tcgagggctt cttcgacctc atcgccattg tggcaggcct ggtccagaca 300  
gtcctctact gcgatttctt ctacctctat atcaccaaag tcctaaaggg gaagaagttg 360  
agtttgccgg catagccccg gtcctctcca tctctctcct cggcagcagc gggaggcaga 420  
ggaaggcggc agaagatgaa gagctttccc atccaggggt gactttttta agaaccacc 480  
tcttgtgctc cccatcccg ctcctgccgg gtttcagggg gacagtggag gatccaggtc 540  
ttggggagct caggacttgg gctgtttgta gttttttgcc ttttagacaa gaaaaaaaaa 600  
tctttccact cttaggtttt tgattctgat gactcgtttt tcttctactc tgtggcccca 660  
atttttataa agtgtttttg agtgtcctat gggccggggc agggccaag atcttttccc 720  
ttccccaggc ccctcggtc cctccagat cccaccccca gccccactgg ttgccaaaca 780

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ctaaatctgc cgacacccat ctgccccacc tcttgccatg gccatgaacc gcgacccccca 840
ctaaatttct agattgggga tagggagaaa gggaggccca ggaagggtctc ccctgatttt 900
ttttcatagt aatttttttc cccagagttt gaattttttg gtcttctcct ggtttttttg 960
caaattaggg gggcccgagg ctcaagtgcg ggaagggggc tggcccgagg atcccatggc 1020
tctcacacca tgtttttgta cagaactgat ggttgaatct ttgttctctt gaaataaaca 1080
gaagaaaatg aaaccttaaa aaaaaaaaaa aaaaaaaaaa acncgggggg gggcccg 1138

```

<210> 64

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 64

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tgctcatcca gaggagctca ccacagtcac tgcgacagac tgccacactc accctggcct 60
ggcctcagag aagttgagct actggcctca gttcacacag agcagatgga ggaagagctg 120
gcactaggac ccagggggca ggggggagcc tccctggctg gaagggatgg caggagcgct 180
ggtgcaggta gctatggagc tctggccaac tctgcctggg gaggtcccag gaaggtggcg 240
tcagcatctg cagccgcgtc gacgttgctg gacccctccg ggaggacca ggagagccgg 300
actaggacca gggccctggg cctccccaca ctcccatgg agaagctggc ggcctctaac 360
agagncccaa ngggcttggg cggtcctggg ncgtgaaaat gttcaagtgc ccgattga 418

```

<210> 65

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2834)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2836)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 65

```
aagaaaccgc ccattacaca cccagtaga ccagcagag aaacttataa cctcgggagg 60
caggctccttc cctcagtagc gggtcacatac ttccagaaga gcggaccagg gctgctgcca 120
gcacctgcca ctcagagcgc ctctgtcgct gggacccttc agaactctct ttgctcacia 180
gttaccaaaa aaaaaagagc caacatgttg gtattgctgg ctggtatctt tgtgggtccac 240
atcgctactg ttattatgct atttgttagc accattgcca atgtctgggt gggttccaat 300
acggtagatg catcagtagg tctttggaaa aactgtacca acattagctg cagtgcacagc 360
ctgtcatatg ccagtgaaga tgccctcaag acagtgcagg ccttcatgat tctctctatc 420
atcttctgtg tcatggccct cctggctctc gtgttccagc tcttcacat ggagaaggga 480
aaccgggttct tctctcagg gggcaccaca ctggtgtgct gscgtgcat tcttggggg 540
tgtccatcta cactagtcac tatgcgaatc gtgatggaac gcatatgcac cacggctatt 600
cctacatcct gggctggatc tgcttctgct tcagcttcat catcggcgtt ctctatctgg 660
tcctgagaaa gaaataaggc cggacgagtt catggggatc tgggggggtg ggaggaggaa 720
gccgttgaat ctgggaggga agtggagggt gctgtacagg aaaaaccgag ataggggagg 780
ggggaggggg aagcaaaggg gggaggtcaa atcccaaacc attactgagg ggattctcta 840
ctgccaagcc cctgccctgg ggagaaagta gttggctagt actttgatgc tcccttgatg 900
gggtccagag agcctccctg cagccaccag acttggcctc cagctgttct tagtgacaca 960
cactgtctgg ggcccatca gctgccaca caccagcccc acttctgggt catgactga 1020
ggtccacaga cctactgcac tgagttaaaa tagcgttaca agttctggca agagcagata 1080
ctgtctttgt gctgaatacg ctaagcctgg aagccatcct gcccttctga cccaaagcaa 1140
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tctttggaac agatatttag ctctgtggaa ttcagtgaca aaatgggagg aggaagaga 1260
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tgttctagta ctgtattggg cttcttcgtt aatagattat ttcatactat ataattgtaa 2700
```

```

atattttgat acaaatgttt ataactctag ggatataaaa acagattctg attcccttca 2760
ttgtgtgaat gtttttttct aaaaaaatg tggagaaata tggataatta tgacatttat 2820
ccctcattaa agcngn 2836

```

<210> 66

<211> 2305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1973)

<223> n equals a,t,g, or c

<400> 66

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tgccaaggag gtgtgcccga agtacttcaa gcacaacaac atggccagct tcgtgcggca 180
gytcaacatg tatggttcc ggaaagtgtt ccacatcgag cagggcgkcc tggtaagcc 240
agagagagac gacacggagt tccagcacc atgttccctg cgtggccagg agcagctcct 300
tgagaacatc aagaggaaag tgaccagtgt gtccaccctg aagagtgaag acataaagat 360
ccgccaggac agcgtcacca agctgctgac ggacgtgcag ctgatgaagg ggaagcagga 420
gtgcatggac tccaagctcc tggccatgaa gcatgagaat gaggtctgtt ggcgggaggt 480
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```

```

ctctggttgt cacaggacca ccaggaaccc ccttcccaag gtgttcgcac tcggacaggt 2220
gatgcggggc gggcacactg tctttctgcc agagccagca ccctgtgtag gcacggggaa 2280
cgggagcctg tcccgtagct ttagg                                     2305

```

```

<210> 67
<211> 1907
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1221)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1655)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1896)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1904)
<223> n equals a,t,g, or c

```

```

<400> 67
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cgggcaagac ccatgaggcc gagatcgtgg aaggggagaa ccacacctac tgcatccgct 180
ttgttccgcg tgagatgggc acacacacag tcagcgtgaa gtacaagggc cagcacgtgc 240
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gagctggggg ccctggcctg gagagagctg aagctggagt gccagccgaa ttcagtatct 360
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caggtgacta cgaagtctca gtcaagttca acgaggaaca cattcccagc agccccttcg 540
tggtgcctgt ggcttctccg tctggcgacg ccgcccgcct cactgtttct agccttcagg 600
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cctgtgcccc ccagcatggg nccccgggtc ctgggcctgc tgacgccagc aagggtggtg 1260

```

```
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gccgtgacc tctcggttt cacttgggca gagggagcca tttggtggcg ctgctgtct 1740
tctttggttc tgggaggggt gagggatggg ggtcctgtac acaaccacc actagttctc 1800
ttctccagcc aagaggaata aagttttgct tccattcwma aaaaaaaaaa aaaaaaaaaa 1860
tyggggggg kccgktaacc caattggcct ttaagngggg ggtntta 1907
```

<210> 68

<211> 815

<212> DNA

<213> Homo sapiens

<400> 68

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gggtcgaccc acgcgtccgt tttttttaag tgtgaatttt ttattgagat aaacaacagc 60
ataaagaata caagtagcca aatggttttg aaaaaccaa ttaggtcaaa gttctaaatt 120
aaaaatagca gttgtgtttc aatttacctt attctagcaa ttwaagtwgg taacatacaa 180
atagttatwc tgatacaaga tattaagac atactcagtt ttaatcaact acctctcaag 240
aaacagtagg gcctctgtaa aattggagac tgataggttg atcagaaact caccctaaat 300
ctgaacgggt gccgtataa tttgtgacat ctggcaagat ttccctttat gtatatattt 360
taacaatccg cttggacacg aacaaagcca cacttctaac tgcttctggc gaactgattt 420
tatttttaat ttttttcaat aaagatattc ttagatactg aaagaaatag ttaatgagtt 480
tgcatatttg cttgagaaaa tttggctcaa gtccatttg ctgtagtgc aacgatgttt 540
ccagtagtgt ttagatttg tgtcttcaaa gtagttgat taaaaccaag tgtgtcttta 600
atatcttgta tcagaataac tttgtatgt accaacttaa attgctagaa taaggtaaat 660
tgatacacia ctgctatttt taatttagaa ctttgaccta atttgggttt tcaaaacat 720
tttggtact tgtattcttt atgctgttgt ttatttcaat aaaaaattca cacctaaatg 780
tatacttact aaaaaaaaaa aaaaaaaaaa actcg 815
```

<210> 69

<211> 1150

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<400> 69

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ctgggtcctc ttgccctggg ctggatgcct tcttcggctc cccctctgca tgtgataact 120
tgggggtggc cttggagctg tgccaaagct acacctcggg gtcctagtct caactggcct 180
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gtccatcatc ccagtggtea tggctggcat catcgccatc tacggcctgg tggtggcagt 360
cctcatcgcc aactccctga atgacgacat cagcctctac aagagcttcc tccagctggg 420
cgccggcctg agcgtgggccc tgagcggcct ggcagccggc tttgccatcg gcatcgtggg 480
ggacgctggc gtgcggggca ccgccagca gccccgacta ttcgtgggca tgatcctgat 540
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cctcaccgcc gggcccgtgg ccctgcgcgg agctgtgtcc aataaagttc ttggatgtga 1080
aaaaaaaaa aaaaaaaaaa aaaaaaaraa aaaaaaaaaa aaaraaaraa aaaaaawaa 1140
gaaaaaaaaa 1150
```

<210> 70

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 70

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caaagtctat tctccagttg ccagagtcag agctgggtga atactctctg gggggctaca 180
gtatttcatt tctgaaacag ctcatgtctg gcaaactcca ggagtcgggt ccagaccctg 240
agctgattga tctgatatac tgtggccgga agcttaaaga tgaccanacc ttgacttcta 300
cgttattcaa cctggctcca catccatgtt ctncggaant cctg 344
```

<210> 71

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 71

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tcgacccacg catccgaaga tgttcttgct gcccttccg gctgccgggc gagtcgtcct 60
ccgacgtctg ggcgtgaaca gttctgggca cggggtctcg ccgccgcaga catgacgaag 120
ggctctgttt taggaatcta tagtaaagac aaagaagatg atgtgccaca gtttacgagt 180
gcaggagaga atttcgataa attggtgtct ggaaagtga gagaaatddd gaacatatct 240
ggacctctc tgaaagcagg caaaaccgga accttttatg gtctgcatga ggacttcccc 300
agcgtggtgg tggtcggcct cggcagaaaag gcagctggag tcgatgacca ggaaaactgg 360
cmtgaaggca aagaaaacat cagagtcgcc atgcaacggg gtgcaggcag gttccaagac 420
ctggnaatct cttctgtgga aggtggat 448
```

<210> 72

<211> 2825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<400> 72

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gcagctgtca atgacactcc gaggtggccg aggcataagc aagaccaatg gtgccccctga 180
gcagataggc ctggatgaga gtgggtgggtg tggcggcagc gaccctggag aggccccac 240
```

```

acgtgctgct cctggggaac ttcgttctgc acggggccca ctcagctctg caccagagat 300
tgtgcacgag gacttgaaga tggggtctga tggggagagt gaccaggctt cagccacgtc 360
ctcggatgag gtgcagtctc cagtgaagat gcgtatgcgc aaccatcccc cagcaagat 420
ctccactgag gacatcaaca agcgcctatc actaccagct gacatccggc tgcctgaggg 480
ctacctggag aagctgaccc tcaatagccc catctttgac aagcccctca gccgccgcct 540
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aaaaa 2825

```

&lt;210&gt; 73

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

```

atgtacgaga gcgcatccaa agaacctagt agagaaaggt attctaacca ctgagaagca 60
gaatttccts ctatttgaca tgactactca tccagtgacc aatacaacag agaaacagcg 120
actagtgaaa aaacttcaag atagtgtact agagcgggtgg gtaaatgacc ctgagcgtat 180
ggacaagcga aactagcac tcctgggtgct agccactcc tctgatgtgc tagagaatgt 240
cttctcctct ctgacagatg acaagtatga tgtggcaatg aatcgagcca aggacttagt 300
agaactggac cctgaagtgg aagggaacaa gccyagtgc acagaratga tctgggctgt 360
gctggcagcc tttyaataaa tcytaaagcc rgyrggtggg tttctycttt tcccctgctg 420
gctggtgact gttcagagac mccwactga gttttgtgtg atgasatgtt ttccatcatt 480
tttcccttyc ttgaatcaga cttgtgaatt 510

```

<210> 74

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 74

```

gggtcgaccc acgcgtccgc tccacttaaa attcaacttc tgettgggtc atctgattct 60
ttcaaggtct taaatgttaa atgaaggggt aaaataggaa ggtatttaag taattagcag 120
gcctcctggg tcttgataac ttcagtgtt ctgggagctg cccggttggc caccagtctc 180
tgtggaatcc aggggcctct tccaatatg gatttgacca gcacttcaat tagtgagttt 240
ccatkagcat cttagcatta ctctttaata cagacgcctt attttccagg gtttatgaaa 300
gtttaagtga caaccatgga ttgcaggaac agactgttga gaagctgttt ttccagtgga 360
aaagttgggt ccaggagatg angggagnct tgaaatagat cctgggatgg aaacataaag 420
tggncagcca gattcccatc atgggctncc ccataaaa 458

```

<210> 75

<211> 377

<212> DNA

<213> Homo sapiens

<400> 75

```

gtcctggaaa cacatcaagc tcagctcctg tgtccagctc gcttctctgc tggactcctt 60
gatttttttt ttaatcattg tttagatttg agcagtaacc aggccttttt ttccagatgt 120
tagtccacac ctattcatcc atggaccggc acgatgggtg cccgagccac agctcgcggc 180
tctcccagct gggtcgggtg tcccaggac cctactcgag cgccccgcgc ctgtcccaca 240
ccccgtcgtc ggacttccag ccgccctact tcccaccccc ctaccagccg ctccccctamc 300
amcagagcca ggacccctac tcccacgtca amgamcccta tccctgaacc cactgcacca 360
gccccagcaa catccct                                     377

```

<210> 76

<211> 2070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2068)

<223> n equals a,t,g, or c

<400> 76

```

tcatgaatgg gaatcctggn cccaagaact ccgcttgcn gacagaggac ctgcagctga 60
ggacctatag cgttgtgccc atgacctnca gtgtatccca gggcaccgcc gtgtgtaata 120
taaagattgg ctgacaaaaa tgtcaggaaa acatgatgtt ggagcttaca tgctaata 180
taagggcgct aatcgtactg aaacagtcac gtcttttaga aaacgagaaa gtaaaagtgc 240
tgctgatctc ttaaagcggg ccttcgtgag gatgagtaca agccctgagg ctttcctggc 300
gctccgctcc cacttcgcca gctctcacgc tctgatatgc atcagccact ggatcctcgg 360
gattggagac agacatctga acaactttat ggtggccatg gagactggcg gcgtgatcgg 420
gatcgacttt gggcatgcgt ttggatccgc tacacagttt ctgccagtcc ctgagttgat 480
gccttttcgg ctaactcgcc agtttatcaa tctgatgtta ccaatgaaag aaacgggcct 540
tatgtacagc atcatggtac acgcactccg ggccttcgc tcagaccctg gcctgctcac 600
caacaccatg gatgtgtttg tcaaggagcc ctcctttgat tggaaaaatt ttgaacagaa 660
aatgtgaaa aaaggagggt catggattca agaaataaat gttgctgaaa aaaattggta 720
ccccgcacag aaaatatgtt acgctaagag aaagtttagc ggtgccaatc cagcagtcac 780
tacttgtgat gagctactcc tgggtcatga gaaggccct gccttcagag actatgtggc 840
tgtggcacga ggaagcaaag atcacaacat tcgtgcccaa gaaccagaga gtgggctttc 900
agaagagact caagtgaagt gcctgatgga ccaggcaaca gacccaaca tccttggcag 960
aacctgggaa ggatgggagc cctggatgtg aggtctgtgg gactctgcag atagaaagca 1020

```

```

ttacattggt taaagaatct actatacttt ggttggcagc attccatgag ctgattttcc 1080
tgaaacacta aagagaaatg tcttttgtgc tacagtttcg tagcatgagt ttaaatcaag 1140
attatgatga gtaaatgtgt atgggttaaa tcaaagataa gggttatagta acatcaaaga 1200
ttaggtgagg tttatagaaa gatagatata caggcttacc aaagtattaa gtcaagaata 1260
taatatgtga tcagctttca aagcatttac aagtgtctgca agttagtga acagctgtct 1320
ccgtaaatgg aggaaatgtg gggaaagcctt ggaatgccct tctggttctg gcacattgga 1380
aagcacactc agaaggcttc atcaccaaga ttttgggaga gtaaagctaa gtatagttga 1440
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cttatattta gaaatgactg catttgatat tttaggatat ttttctaggt tttttccttt 1560
cattttattc tcttctagtt ttgacathtt atgatagatt tgctctctag aaggaaacgt 1620
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gaaatgaatt cctcathttgg aggaaaaaaa gcatgcattc tagcacaca agatgaaatt 1860
atggaataca aaagtggctc cttcccatgt gcagtccctg tcccccccg ccagtcctcc 1920
acacccaaac tgtttctgat tggcttttag ctttttgttg tttttttttt tccttctaac 1980
acttgtattt ggaggtcttt ctgtgathtt gagaagtata ctcttgagtg ttttaataag 2040
tttttttcca aaaaaaaaaa aaaaaaantt 2070

```

<210> 77

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 77

```

ctcgccttcc tgactcttcc tgcaggtggc tcaggaagga ttcagcctgg ccacttggt 60
aggactctgc cagcacccat ctgagactga cctcttccgg gcctttggac actatgacct 120
tgatgtctgc cttcaggcag gaaacagggc tgggtgcctt tttcacctgc atggccagct 180
tccttccctg gcagtggaga gggcagccaa caggttctaa tgtcagagcc atcctttacc 240
aggtgggcct gcttgccct gtcttgectg ccacatcact ctacttttg gaaggccatg 300
gctgattaaa gaagttcttg tagtttccca agcaaagtgg aatctagaaa cagtgaaaaa 360
agttcagata actttgaatt gcattcaaga agtacacttc tttcccatg tccgtggctc 420
ttggagtctc cgtgatgcca ggctagagtc tgattatata ataattcaaa atggtaactc 480
ccaaggtaat gctttcttcc atttcatcag gttcttttat cccactgca cccctcccc 540
ttctcccttg cctatctgga tggtcttca gaagctcggc cctagtcctc cctgccttgg 600
cgggggccag agccactna ctgctgaggc agcactgctc tcgtcagctg tgttgcttt 660
amccaagtgt cttcagaggg ttatgagtta gagtagctgg cctggggaga ggtgcctcc 720
ctgggtttga tctttagggt ctgactttct gcagagaaga tgttttacag atgtgtcaaa 780
gctgatgtaa tgtggttggg ggaggaaatc cagaccaaa gtgtttgtca gctgggtgta 840
caactgccta tgtatcctc tgtcttaaaa tgatttctgt ctgtgctgcg aaacaaagac 900
aaggtgaggt gtttttcttt tttgtaataa tataaagctg tgtgtttctg attggatgat 960
tcactatgtg cattgttccy cctaagtgtc tttagta 997

```

<210> 78

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 78

```

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aggtgcaggg ggctggcaac gaaaatgagc ctgcgcaggc cgacaagagc caccgcggagc 120
agcgcragct tcggcctcgg ctctgtacca tgaagaaggc cccagtggtc tatggcttca 180
acctgcacag cgacaagtcc aagccaggcc agttcatccg gtcagtggac ccagactccc 240
cggctgaggg ttcagggttc cgggcccagg atcgcatgtg ggaggtgaac ggggtctgca 300
tggaggggaa gcagcatggg gacgtggtgt ccgccatcag ggctggcggg gacgagacca 360
agctgctggt ggtggacagg gaaactgacg agttcttcaa gaaatgcaga gtgatcccat 420
ctcaggagca cctgaatggt cccctgcctg tgcccttcac caatggggag atacagaagg 480
agaacagtcg tgaagccctg gcagaggcag ccttgagagc cccaggcca gccctggtga 540
gatccgcctc cagtgcaccc agcgaggagc tgaattccca agacagcccc ccaaacagg 600
actccacagc gccctcgtct acctcctcct ccgaccccat cctagacttc aacatctccc 660
tggccatggc caaagagagg gccaccaga aacgcagcag caaacgggcc ccgcagatgg 720
actggagcaa gaaaaacgaa ctcttcagca acctctgagc gccctgctgc caccagtgta 780
ctggcagggc cgagccagca ttccacccca ctttttctt tctccccaat tactccccctg 840
aatcaatgta caaatcagca cccacatccc ctttcttgac aaatgatttt tctagagaac 900
tatgttcttc cctgacttta ggggaaggtga atgtgttccc gtcctcccgc agtcagaaaag 960
gagactctgc ctccctcctc ctcaactgagt gctcctcct accgggtgtc cctttgccac 1020
cctgcctggg acatcgctgg aacctgcacc atgccaggat catgggacca ggcgagaggg 1080
caccctccct tcctcccca tgtgataaat ggggtccagg ctgatcaaa aactytgact 1140
gcagaactgc cgytctyagt ggacaggcca tytggtatga cagacctktg gcagacacgt 1200
cttgttttca ttgatttttg ttaagagtgc agtattgcag agtctagagg aatntatgtt 1260
tccttgatta acatgatttc ctggttggtta catccanggc aggcagtggtc tcagctttaa 1320
atttggtttc cta                                     1333

```

<210> 79

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 79

```

caatggggct gaggtgtgtt ccaactgagc taagatgact gcctttcctg attggccttg 60
gcttttccat acattgtgtg acccttgccc tatgacctt tggctgacct taccggaagc 120
catgacgaca gcagcctttt gccattagac gcagggtgat ggtgaggatt ccaagggtta 180

```

```

gacaaaactg gttaatctga actaggtgac tgttaccttg cgtgttttgt ggccaaacca 240
ccacaaaaaa cctcacactg tgatgtaagt acttagtgta aaactagtaa acatttttgt 300
aaaatgtaga aatgcatgta atcagttaag ttttatattt tacaatgttc tgtaaaataa 360
aacttagcga ggtaaatacga ataaaggagc agtcaacttc taacagattg taggagaggt 420
ttagttggat ttagtctatt tgacttgccc ttaatttaat tttatggcaa atcacaaatg 480
tgtcgaaggt ttagcaatat aatagcaaaag tcctactcca gttaaataaaa gttggtatgt 540
tngtacttaa ctttcaaaaag                                     560

```

<210> 80

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3201)

<223> n equals a,t,g, or c

<400> 80

```

cggtacgcgt gggtcgcggg cttcgggggt ctgcgcctgc ggctgcctgg actcagcagg 60
cccctggacc atgtcccgcg ccctgcggcc accgctcccc cctctctgct ttttcctttt 120
gttgctggcg gctgccggtg ctcgggcccg gggatacgag acatgcccc aagtgcagcc 180
gaacatgctg aacgtgcacc tgctgcctca cacacatgat gacgtgggct ggctcaaaac 240
cgtggaccag tacttttatg gaatcaagaa tgacatccag cacgccggtg tgcagtacat 300
cctggactcg gtcatctctg ccttgctggc agatcccacc cgctcgcttca tttacgtgga 360
gattgccttc ttctcccgtt ggtggcacca gcagacaaat gccacacagg aagtcgtgcg 420
agaccttggt cgccaggggc gcctggagtt cgccaatggt ggctgggtga tgaacgatga 480
ggcagccacc cactacggtg ccatcggtga ccagatgaca cttgggctgc gctttctgga 540
ggacacattt ggcaatgatg ggcgaccccc tgtggccttg cacattgacc ccttcggcca 600
ctctcgggag caggcctcgc tgtttgcgca ratgggcttc gacggcttct tctttgggcg 660
ccttgattat caagataagt ggttacggat gcagaagctg gagatggagc aggtgtggcg 720

```



ggccagcacc agcctgaagc ccccgaccgc ggacctcttc actggtgtgc ttcccaatgg 780  
ttacaacccg ccaaggaatc tgtgctggga tgtgctgtgt gtcgatcagc cgctggtgga 840  
ggaccctcgc agccccgagt acaacgccaa ggagctggtc gattacttcc taaatgtggc 900  
cactgcccag ggccggtatt accgcaccaa ccacactgtg atgaccatgg gctcggactt 960  
ccaatatgag aatgccaaaca tgtggttcaa gaaccttgac aagctcatcc rgctggtaaa 1020  
tgcgcaaggc aaaaggaagc agtgtccatg ttctctactc caccctcgct tgttacctct 1080  
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gcngctcaga ggcttcaaag atcacttcac cttttgccaa cagctaaaca tcagcatctg 1500  
cccgtcagc cagacggcgg cgcgcttcca ggtcatcgtt tataatcccc tggggcgga 1560  
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gtcccctgct ttaaccatcg aaaatgagca catccgggca acgtttgatc ctgacacagg 1860  
gctgttgatg gagattatga acatgaatca gcaactcctg ctgcctgttc gccagacctt 1920  
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gacgcttcta cacagacagc aatggccggg agatcctgga gaggaggcgg gattatcgac 2280  
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tggacgcgga gtatcgagc cactaatgga gaacgggtcg ggggcgtggg tgcgagggcg 2520  
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gcaggaggtc ctggcccctc aggtggtgct ggccccgggt ggcggcgccg cctacaatct 2640  
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ggcctcagtt caatggaagg aggtggatgg ttaggtctgc tgggatgggc cctccaagcc 3060  
caagcctcct gctccggggg cagaccagac tctgactctc ctcttgggct gctgccatta 3120  
aaacgctact actaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3180  
aaatttanaa aaaaaaaaaa naa 3203

&lt;210&gt; 81

&lt;211&gt; 1710

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1424)

<223> n equals a,t,g, or c

<400> 81

```
aagagccgaa cggataagag aagaggaggg cgcgkatggc gtcggggcgc cccgaggagc 60
tgtgggaggg cgtggtgggg gccgctgagc gcttccgggc ccggactggc acggagctgg 120
tgctgctgac cgcggccccc ccgcaccacc ccgcccgggc ccctgtgcct atgctgcca 180
tggctcagga gccctggcgg aggcagcgcg ccgttgccct caccacatcg cactggccca 240
cagggtgcc actgtgctc gccctcctgc gcccaccacac gcaccacagc caccagtc 300
cacaccagc ccacccggc ctaccctggc cagagaggac aacgaggagg acgaggatga 360
gcccacagag acagagacct ccggggagca gctgggcatt agtgataatg gagggctctt 420
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gagtacagat gatggcagcc tgagcgagga gaccccgcc ggcccccca cctgtcagt 540
gccccagcc tcagccctac ccacacagca gtacgccaag tccctgcctg tgtctgtgcc 600
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cgtccaca ctaccccc gccccactcc cggggcctgc taatctgagg ccgatccgg 900
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cttcaattta cgtcttttac actacgggga ctggggtcgt cttgcccac gtcccgaca 1380
cttgttccct gacccctca gggatggccc caaactgtcc ctgnccttg caccctctt 1440
cattggttcc atccatcccc acaacagcct gccaatcgaa gcccgctcct gcatccagga 1500
tggtaccagc tcccggccct cgcacccac ctcacaggt gccttaaagg gccctcgtca 1560
cccaaggtgg gggcaggggc cctcactctc cggccctgg gtgggggaga gaggtaggg 1620
ttgggggatc ggcagttgg aggggcgctc tgagattaaa gatttttacc tctgagataa 1680
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1710
```

<210> 82

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 82

```
aattcggcag agctgagccc cgggctgtgc agtccgacgc cgactgaggc acgagcgggt 60
gacgctgggc ctgcagcgcg gagcagaaag cagaaccgcg agagtccctc ctgctgctgt 120
gtggacgaca cgtgggcaca ggcagaagtg ggccctgtga ccagctgcac tggtttcgtg 180
gaaggaaagt ccaggactgg cgggatgggc tcagcctgta tcaaagtcac caaatacttt 240
ctcttcctct tcaacttgat ctcttttata ctgggcgcag tgatcctggg cttcgggggtg 300
tggatcctgg ccgacaagag cagtttcatc tctgtcctgc aaacctcctc cagctcgctt 360
aggatggggg cctatgtctt catcggcgtg ggggcagtca ctatgctcat gggttccctg 420
ggctgcacgc gcgccgtcaa cgargtccgc tgcctgctgg ggctgtamtt tgctttcctg 480
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gtaagccctc ctctccctcc ctcttactg ggctggacca accatggggg tgattgactg 600
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ggcagggtgr gcagtcctcc gctgggcctg gwtcttagcc tgacccccct gctttctagc 780
tgtgtggcct tgggcaagct gcttgccctc atgtgcctgt tccaccatct gtgaaaatgg 840
aaacaataag aaaactgaac tctcagagtg gttgcaaaga ttattcgaga ttatctgagt 900
gaaacacata gcgcattggc ccataagtac tcaataaatg ttattcttgt tattattaag 960
rtacttttag aactattaaa tccatgccac tcaccacaaa atgaggttta gaaggagacc 1020
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tcagacttac agcggcctaa agttgaagga catctgtggt tgacttgacc ggaagtctgg 1140
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gcattatgac acttacctcg tggttccaag atggctgcca cagcaccagg cacgatgtct 1260
gtgccgctgt ggcctgaaga tggggaagtg ggcagtgcca gacatggcca tcccttttat 1320
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```

<210> 83

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 83

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cttgtgtgcc tgggtgcggga gctacggggc ccagggtattg tgtttaaagt agtgcttcta 120
ccaacatgac ccgtggttcc agcgcgggtt ttgaccgcca cattaccatt ttttcacccc 180
```

```

agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggg ggccttacat 240
cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca 300
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttgtg 360
tgatgaccgg aatgacagct gacagcagat cccaggtaca gagggcacgc tatgaggcag 420
ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaattg 480
ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga 540
ttttaattgg tatagatgaa gagcaaggcc ctcaggtata taagtgtgat cctgcagggt 600
antactgtgg ggtttaaagc cactgnagcg ggagttaaac aaactggngt caaccagctt 660
ccttgaaaaa aaagtgga                                     678

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<210> 84

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 84

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caacatgagn aatccttctc ctccctctggt ctggcttgga aatscaaaan ctcytcgcaa 60
cgtcccgcga raatctggtt gctctgccgg atggcatctc ggagctcttg attctcctcc 120
aggcarcgct ggagggtctc aggagcgccc tgttctgaag gcagggtgcag catggctggc 180
ttccccagag gagactcttc gccaggtacg tcctgatctg ctgccgggcc accactgggc 240
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tgtcagcaga gtccgtcaga cgtgagaagg gtgggagcgg cggactgtga acgctggtag 360
ggccccggcg ctccgagaaa gtcccagttt cgcggtcgcc cttccctacc acgcttccgg 420
cttccggtgt catagctgtg ggatccggaa gtaaaaacac aagccccgcs cccrrgaact 480
cggaagccg gcgakaagtg tgaggccgcg gtagggncgc atcccgtcc ggagagaagt 540
ctgagtcgcg cagctctgca ggcccgcgga antcgacagc gtcatggcag agcaggtggc 600

```

cctgagccgg acccaggtgt gcgggatcct gcgggaagag cttttccagg gcgatgcctt 660  
ccatcagtcg gatacacaca tattcatcat catgggtgca tcgggtgacc tggccaagaa 720  
gaagatctac cccaccatct ggtggctgtt ccgggatggc cttctgcccg aaaacacctt 780  
catcgtgggc tatgcccgtt ccgcctcac agtggctgac atccgcaaac agagtgaacc 840  
cttcttcaag gccaccccag aggagaagct caagctggag gacttctttg cccgcaactc 900  
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catcatcgtg gagaagccct tcgggagggg cctgcagagc tctgaccggc tgtccaacca 1140  
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cggganccag atgcacttcg tgcgcaggac gagctccgtg aggcctggcg tattttcacc 1980  
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aacatctcga gccccctgga tgtcccctgt cccaccaact ctgcactcca tggccacccc 2640  
gtgccacccg taggcagcct ctctgtata agaaaagcag acgcagcagc tgggaccctt 2700  
cccaacctca atgccctgcc attaaatccg caaacagcca aaaaaaaaaa aaaaaaaaaa 2760  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 2803

&lt;210&gt; 85

&lt;211&gt; 1278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

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gccccgtgag gccctggcct tcatcatcag gagttttggt ggggaagtgt cctgggacaa 120  
atctttgtgc attggggcca cctatgacgt cacagactcc cgcacaccc atcagattgt 180  
cgaccggcct gggcagcaga cctcagtcac tggcaggtgc tacgtgcagc cccagtrggt 240  
gtttgactca gtgaacgcca ggctccttct ccccgaggca gactacttct ctgggggtgca 300  
gctgccccca cacctttcac cctttgtgac cgagaaggaa ggagattacg ttccacctga 360  
gaagctgaag ctgctggctc tgcagcgggg agaggaccca ggaaacctga atgagtcaga 420

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agaggaggag gaagaggacg acaacaacga aggtgatggt gatgaagagg gagaaaatga 480
ggaggaggag gaagatgcag aggctggttc agaaaaggag gaagaggccc ggctggcagc 540
cctggaaagag cagaggatgg aggggaagaa gcccagggtg atggcaggca ccttgaagct 600
ggaggataag cagcggctgg cccaggagga ggagagtga gccaagcgcc tggccattat 660
gatgatgaag aagcgggaga agtacctgta ccagaagatc atgtttggca agaggcgaaa 720
aatccgagag gccacaagc tggcggagaa gcggaaagcc cacgatgagg cggtagggtc 780
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aggcccaccc agccccctac ctactgcccc cattcatcct ggctttccac agccccctcc 1140
cacacagttg gaccctgat tctcagggtg ctgtgatggg gtgagggtag ggggagcatt 1200
tgttattaaa tgactggact tttgtgcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaa cgcgtccg 1278
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<210> 86

<211> 2585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2573)

<223> n equals a,t,g, or c

<400> 86

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accccgaggt gtcccttttg gctcgattcc caggaaactc ctccctcaacc cctttggcat 120
cagcattaca agccaaagcc tcaatccagg gccctttcgt actcctaaag cagggaataa 180
gacctatcac ttccgctcca ccttggccga gttccagggt ataattggga ggaagagagg 240
aaatgtggaa aagggtcggg tggcaaagct gggaccagat ggtgcagctt tcctgcagat 300
tcccgcagaa gagatccctg cctacatgtc tgtgcatcga ctccctgagga agctgctaag 360
tcgatattcg ctccagtag caaccgaga gaacctgtt atcaatgact gctgcagagg 420
tgctatgctt tccctggcca caggctggcc cactctggaa gcgacctctc tctgttagtc 480
ccagaaattg aagatatgta cagcagcccc tatctgcgcc cctcagaatc tcctatcacc 540
gtcgagggtca actgcaccaa tccaggcacc agatatgtct ggatgagtag tgggctctac 600
atacctggaa ggcaaatat agaagtctca ctgcctgaag ctgctgcctc tgccgacctg 660
aagatacaga ttggctgcca cacagatgac ctgaccaggg ccagcaagct tttccgaggc 720
ccactcgtaa ttaaccggtg ctgcttgagc aaaccacaa aatcgatcac gtgcctctgg 780
ggtggactcc tctatataat tgtgcctcag aacagcaaac tgggttctgt gcctgtcacc 840
gtgaaggggg ctgtgcatgc tccatactac aagctggggg agaccacctt ggaggagtgg 900
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cctcagagga ttgttgccga cgtgcagatc tcagtgggct ggatgcatgc agggtagccc 1140
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gtcagaatct acctgagcaa ggtcccaat gtgaaaaact ggaatgcatg gmccgcactg 1440
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gaaacgtatt tacagctcca ggaagccttt ggttgggagc cattcatccg tctcttcacc 1500
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aagatgttct cccaccaagt gcagaagaac ctggctccgt tctttgaggc ctgggctggc 1620
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gaactgagca catctcagca aagaaaactg aagggatttg gttataagtg gagaggatct 1800
cagcatatct ctggaagata gaaagtggat gaagcatgat aatgaaagag tgaagaacct 1860
ttcagataaa atgtaagctg atctgaacaa cataaccca aagagacttg cgcacctgaa 1920
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aactgttata caagttaaca gttatgttga ttcttaaatg gggaatggtg agttagaaat 2340
tcccagacat gggcgatggg gaggggaagag grataaggaa aagtcacgag gtaggawtta 2400
gggggccttg aaaatatgac aaactctgag gggaaacaaa grcmatktg gaaagawtaa 2460
cttaatttta attccatctc cagagagatt tgaggtgtat ttaagatgaa aaacaggata 2520
ctacaaagaa acgggaaaac tcaggggttc aagaccagcc taggcaagat ggnaaaaaac 2580
cccccc 2585

```

<210> 87

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 87

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gggtcgacct acgcgtccgc atgaatttgt cacaatctta tcaataatca ttactctgtt 60
tttttatatt caactaaaag tatcaaaata tagctttcca gaaaaccccg aaccaaagtc 120
actgactaca tcaaagtcct ctacaccttg agaaaacaaa tgaacgaaaa tctattttcc 180
tcattcatta cccaacaat aataggactc cctatcgtaa ttattatcac tatgtttcca 240
agcattatat tcccatcacc taccgactr aatcaataat cgactscatc tccattccaa 300
caatgattag tgcactgaac atscaaaaca aatrttgatc catgccacaa ccaaaaagga 360
caaactggag cccggatatt gatan 385

```

<210> 88

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (1088)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2482)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2491)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2497)  
<223> n equals a,t,g, or c

<400> 88  
tcgacccacg cgtccgccca cgcgtccgtc tccaccgctg ctgccgccgc cctggccgcc 60  
gccgcagtga aagctaagca cttggctgct gttgaggaaa ggaagatcaa atctttggtg 120  
gccctgctgg tggagaccca gatgaaaaag ttggagatca aacttcggca ctttgaggag 180  
ctggagacta tcatggaccg ggagcragaa gcactggagt atcagaggca gcagctcctg 240  
gccgacagac aagccttcca catggagcag ctgaagtatg cggagatgag ggctcggcag 300  
cagcaettcc aacagatgca ccaacagcag cagcagccac caccagccct gccccaggc 360  
tcccagccta tcccccaac aggggctgct gggccaccgc caktccatgg cttggctgtg 420  
gctccagcnt ctgtagtccc tgcctcctgct ggcagtgggg ccctccagg aagtttgggc 480  
ccttctgaac agattgggca ggcagggcca actgcagggc cacagcagca gcaaccagct 540  
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tcaccgttcc ccaaccaaca aactcctccc tcaatgatgc caggggcagt gccaggcagc 660  
gggcacccag gcgtggcggg taatgctcct ttgggtttgc cttttggcat gccgcctcct 720  
cctcctcctc ctgctccatc catcatccca tttggtagtc tagctgactc catcagtatt 780  
aacctccccg ctctcctaa cctgcatggg catcaccacc atctcccgtt cgcgccgggc 840  
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gttcatcact acgtaaggaa agctccttcc gccctccaa agccctcacc atgcctaaca 1260  
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ccactaaaaa ataaccaatt tttacatttt ttgaggggga gtgagtttta ggaaagggga 1560



```

attaagattc cagggagagc tctggggata gaacaggggc cagattccat ctctcccaa 1620
gcccttttt agtgactaag tcaaggcccc aactcccctc cccacccta cgtgagctt 1680
attcgagttc attcgacta ataatccctc ctgcggcttc ctcatgttg ctgttttagg 1740
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acctttctt tgttcaaagt tttctgtaa ttttctctt ttttcttct tctttttt 2400
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aaaaaaaaa aaaaaaaaaa tngagggggg ncccgnacc 2500

```

<210> 89

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 89

```

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catcgatgag gctggccact gcatggagcc tgagaagtct ggtagctata gcagggtga 180
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agctggggcc tgtgctgctg tccccactga cccagaagca tggactggga tactactgc 300
tggarcggct gctcacctac aactccctgt acaagaaggg ccctgatggc tatgaccccc 360
agttcataac caagctgctc cgcaactaca ggtctcatcc caccatcctg gacattccta 420
accagctcta ttatgaaggg gagctgcagg cctgtgctga tgtcgtggat cgagaacgct 480
tctgccgctg ggcggsccca cctcgacagg gctttcccat catctttcac ggcgtaatgg 540
gcaaagatga gcgtgaaggc aacagcccat ccttcttcaa ccctgaagag gctgccacag 600
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gcacaccaa acttgacagg gagcttcgag gactggatga catcaaggac ttgaagggtg 780
gttcagtaga agaattccaa ggccaagaac gaagcgtcat cctcatctcc accgtgcgaa 840
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tgaagacaca gcacccagcc ttctgcacc agccaagcct taactgcctg cctgacctg 1260
aaccagaacc cagctgaact gccctccaa gggacaggaa ggctggggga gggagtttac 1320
aaccgaagcc attyacccck cctccctgct ggggagaatg acacatcaag ctgctaaca 1380

```

ttgggggaag gggaaggaag aaaactctg

1409

<210> 90

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<400> 90

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 tcactcccggt gcctaccagc aggtctctcag cagggttaaa gaagctaagc aaaaaagcca 180  
 acagaccatt tctcagctcc attctactgt tcacctgatt gaatttgcca ggaagaatgt 240  
 gtatagtgcc aatcagaaaa ttcaggatgc tcaggataag ctctacctct catgggtaga 300  
 gtggaaaaag agcattggat atgatgatac tgatgagtc cactgtgctg agcacattga 360  
 gtcacgtact cttgcaattg cccgcaacct gactcagcag ctccagacca cgtgccacac 420  
 cctcctgtcc aacatccaag gtgtaccaca gaacatcca gatcaagcca agcacatggg 480  
 ggtgatggca ggcgacatct actcagtgtt ccgcaatgct gcctccttta aagaagtgtc 540  
 tgacagcctc ctacttcta gcaaggggca gctgcagaaa atgaaggaat ctttagatga 600  
 cgtgatggat tatcttggtta acaacacgcc cctcaactgg ctggtaggtc ccttttatcc 660  
 tcagctgact gagtctcaga atgctcagga ccaagggtgca gagatggaca agagcagcca 720  
 ggagaccagc cgatctgagc ataaaactca ttaaactgct ccctatcact agtgcattgt 780  
 gtggccagac agatgacacc ttttgttatg ttgaaattaa cttgctaggc aaccctaaat 840  
 tgggaagcaa gtagctagta taaaggccct caattgtagt tgtttccagc tgaattaaga 900  
 gctttaaagt ttctggcatt agcagatgat ttctgttcac ctggtaagaa aagaatgata 960  
 ggcttgctcag agcctatagc cagaactcag aaaaaattca aatgcactta tgttctcatt 1020  
 ctatggccat tgtgttgctt ctgttactgt ttgtattgaa taaaaacatc ttcattgtgg 1080  
 ctggggtaga aactgggtgc tgctctggtg tgatctgaaa aggcgtcttc actgctttat 1140  
 ctcatgatgc ttgcttgtaa aacttgattt tagtttttca tttctcaaat aggaatacta 1200  
 cctttgaatt caataaaatt cactgcagga tagaccagtt aaaaaaaaaa aaaaaaaaaa 1260  
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<210> 91  
<211> 787  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (677)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (725)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (742)  
<223> n equals a,t,g, or c

<400> 91  
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cgcagatcca gctacctctg ttagccgccc gaagtacaag ttgcagaagc agcttgatag 180  
cctcacagcc aggaccccat cagaagggga ggcagggact cagaggcaac aaaagcttcc 240  
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ggatgagcct ccagccccag ggagcccga gctctaactc atcatcccca tcagttttcc 360  
tccctctcag acctgtcttt gaggacaaaac agatttgtca gctgtcaggg tgcagtggga 420  
cgtcagagac tatgtgggtcc atcgcccttca ttgtgtaaat gaggacacag actggcttgg 480  
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gaagtctggg aatgaggaga ttgagataaa cttttgaaat cccaaacatg tctgtttatg 600  
gctctttggt cccctttgct cccagtgggt acttttgtgc ttctgagttg tcccctgaga 660  
gcttggtctg ggaaanagg aaggaagggg tcctcactgg aggaagagga acctttctaa 720  
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acaagtg 787

<210> 92  
<211> 1657  
<212> DNA  
<213> Homo sapiens

<400> 92  
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ggcgttttgg ttccagagga ggcccaggag gagggttcag gccctttgta ccacatatcc 180  
catttgactt ctatttgtgt gaaatggcct ttccccgggt caagccagca cctgatgaaa 240  
cttcctcag tgaggccttg ctgaagagga atcaggacct ggctcccaat tctgctgaac 300  
aggcatctat cttttctctg gtgacaaaaa taaacaatgt gattgataat ctgattgtgg 360  
ctccagggac atttgaagtg caaattgaag aagttcgaca ggtgggatcc tataaaaagg 420  
ggacaatgac tacaggacac aatgtggctg acctggtggt gataactcaag attctgccaa 480

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cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga gcacaggatc 540
cctctgaagt ttaaccatg ctgaccaacg aaactggcct tgaaatcagt tcttctgatg 600
ctacagtga gattctcatt acaacagtgc cacccaatct tcgaaaactg gatccagaac 660
tccatttga tatcaaagta ttgcagagt ccttagcagc catccgacat gcccgctggt 720
tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg aaggacttga 780
ggattcgctt tcctggcttt gagccctca caccctggat ccttgacctg ctaggccatt 840
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gctatacagc tcagactctc gtccgaatcc tctcatatgg tggctttagg aagatccttg 1080
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ataatctcca actcctgaaa acccctctct caactaatac ttgctgttg aaatgtgtg 1560
aaatgttaag tgcttgaaa ttttttttc taagaaaaac tattaaagta cttcctagta 1620
ggaaaaaaaa aaaaaaaaaa aaacycggg gttttct 1657

```

<210> 93

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 93

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aattcggcac gaggggttct gcactaacag cctccaagcc ccctggcact tcttttggcc 60
tgagagtgtc ccaggggatt cagagtctcc agaaagatat ggctrggcca actctgttgc 120
ctacctrgcc tgaccagtc ggagcctgac atggtggagg gaaagggaga caagtggggc 180
tgactcgggt ccagaggcca gctaggagg aaaccgcagc ttctggggc ttgtgtgtga 240
agattcctga cttagggtg gctttgttt acaagatgca agaggggaaa cctgtccccg 300
actcatcgag acaacatgcc cagttatcag ggagtccgtg gtcacaaggt ctgtctctgc 360
cattgtaagc aagtgccttg ggcgagctgg cctctgcccc acagtctcat ctgtacaccg 420
acaggggttg tgccctccctc acaggggtga gaacaagagc cakttggccca attaaaaana 480
aaaaan 485

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<210> 94

<211> 764

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (202)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (565)  
 <223> n equals a,t,g, or c

<400> 94  
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 atggaggggac ctacgtgccg actgccgggg aggccgtgcg ggggctagaa acagctctgc 120  
 grtggttgga gaaccaggac cccagagagg tggggccact gaggctggtg cagttgcgct 180  
 cactcatcag catggcccgg angctggggg gcatcgggca taccacagca ggcccctatg 240  
 acggtgtgtg accagggccas cccagtgcac tttctcctgc tgcacttgga gggaggggac 300  
 atacacacag tctcccatct ctccctccct cccctcgggg tggcccaccg catgggtaca 360  
 ggggggttcca ggaatccaaa tccagcatgg cttggaggag ctctgttggt gagaggctgc 420  
 cctgcctcac tggcaccctg ggggcacagc tgggaagagag gcctggccca tgctcctctc 480  
 agggcaggca catgtacggg gcatacaagg cacagcgctt gttggaacag gtggtgtgtg 540  
 tcctgctctg gcccccgctg ggctngcctc cgcccctgca ccagtcacat gcactggacg 600  
 agggccgaaa ctctgtctg ctatcgagcc ctggtgctat gtggccccgg agccacagca 660  
 caatcatctc agtggcgaag cacaccactt gattctatct ttttttaaca cattaaatct 720  
 gtttttaaag ataataaaaa aaaaaaaaaa aaaaaaaaaa aaaa 764

<210> 95  
 <211> 707  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (45)  
 <223> n equals a,t,g, or c

<400> 95  
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 ccacgcgtgc catcatggcg caggatcaag gtgaaaagga gaaccccatg cgggaacttc 120  
 gcatccgcaa actctgtctc aacatctgtg ttggggagag tggagacaga ctgacgcgag 180  
 cagccaaggt gttggagcag ctacacaggc agaccctgtg gttttccaaa gctagatata 240  
 ctgtcagatc ctttggcatc cggagaaatg aaaagattgc tgtccactgc acagttcgag 300  
 gggccaaggc agaagaaatc ttggagaagg gtctaaaggc gcgggagtat gagttaagaa 360  
 aaaacaactt ctacagatac ggaaactttg gttttgggat ccaggaacac atcgatctgg 420  
 gtatcaaata tgaccacaagc attggtatct acggcctgga cttctatgtg gtgctgggta 480  
 ggccagggtt cagcatcgca gacaagaagc gcaggacagg ctgcattggg gccaaacaca 540  
 gaatcagcaa agaggaggcc atgcgctggt tccagcagaa gtatgatggg atcatccttc 600  
 ctggcaataa aattcccggt tctatccaaa agagcaataa aaagttttca gtgaaaaaaa 660  
 aaaaaaaaaa aaaaaaaggg ggcccccttt tgggggtccc ctggggg 707

<210> 96

<211> 815  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<400> 96  
aacccttac tccctnccgt aatttttgta agcccttaaa ataanaaatn aaaaatycca 60  
taacccccaa agaagaatcc cccccacatt waggccttggt aagtaaatgc ctccctgaccc 120  
caagcccgaa gatgcccccc attctctwag tgatggcggc gttaggggtt gagagaaggg 180  
aatgtggctc aacttcagtt gagaggggtgc agtccagaca gcttgactgc ttttaaatga 240  
ccaaagatga cctgtggtaa gcaacctggg catcttagga agcagtcctt ggagaaggca 300  
tgttcccaga aaggtctctg gagggacaaa ctactcagt aaaacataat gtatcatcat 360  
gaagaaaact gattctctat gacatgaaat gaaaatttta atgcattgtt ataattacta 420  
atgtacgctg ctgcaggaca ttaataaagt tgctttttta ggctacagtg tctcgatgcc 480  
ataatcagaa cacacttttt ttcctctttc tcccagcttc aaatgcaaat tcatcattgg 540  
gtcacttct aataactgca gtgtttcccg ccttggggtt gcagcagaaa aacctgacaa 600  
catagtgtt gctaaggcag taatttagac tttaccttat ttgtgattac tgtagtgatt 660  
gattgattga ttactattaa ctacaaggta taatttacta tcaccttatt taaattttat 720  
gaattaattt gaatgttttt tacactaact aacttttccc aataaagtcc actatgaaac 780  
cacgacaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 815

<210> 97  
<211> 658  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (627)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (634)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 97

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tcccggatgat ccatgccttc cgccggggccg tggacgaccc tggcctgggtg ttcaaccagc 120
tgcccaagat gctgtacccc gagtaccaca aggtgcacca gatgatgcgg gagcagtcca 180
tctgtcggcc cagcccctat gaggggtacc gcagcctccc caggcaccag ctgctgtgct 240
tcaaggaaga ctgccaggcc gtgttcagg acctcgaggg tgcgagaag gtgtttgggg 300
tctccctggt gctggtcctc atcggctccc accccgacct ctcttcctg cctggggcag 360
gggctgactt tgagtggtat cctgaccagc cgctgagcgc caagaggaac cccattgacg 420
tggacccctt cacctaccag agcaccggcc agraggccct gtacgccatg gggccggtg 480
ccggggacaa cttcgtgagg tttgtgcagg ggggcccctt ggctgtkgcc agtccctgc 540
taaggaagga acagaaccac ctacatcgcc aaccctggtc cagcctraga ggaatacatc 600
ctctgatcga cctcaaatec ggagttcccc cttnncttgt caaattgacc gccaata 658
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<210> 98

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<400> 98

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aaaatggtag acctgacagt accgggtccgg caattcccg gattttgagc tgggggtttg 60
agactscct tagagataga gaaacagacc caagaaatgt gctcaattgc aatgggccac 120
atacctagat ctccagatgt catttcccct ctcttatttt aagttatgtt aagattacta 180
aaacaataaa agtcctaaa aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg 240
ggggcccng 249
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<210> 99

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 99

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acggttcaa ccgcagcttc tgcggccgca acgccacggt ctacgggaag ggcgtgtatt 60
tcgccaggcg cgctccctg tcggtgcagg accgctactc gcccccaac gccgatggcc 120
ataaggcggg gtctgtggca cgggtgctga ctggcgacta cgggcagggc cgccgcggtc 180
tgcgggcgcc cctctgcgg ggtcctggcc acgtgctcct gcgtacgac agcgcctggg 240
actgcatctg ccagcccagc atcttcgtca tcttcacga ccccaggcg ctgccccacc 300
acctcatcac ctgcgargca cgtgccccgc gttcccccg acgaccctc tgggtccccg 360
```

```

ggccgctccc cagacactta accgaagggg ccaccctctg gcctcctgct tcccaggetc 420
ccagctccgc acaggctgat gctccccgcc cccaactgtg gccgcctgag ctgtccccgg 480
ggasgccctg cctccctctg cgggctccag aaggcggtgt gggggatggc ggtcagcagc 540
ggccgagggg ggccgggcta ggtcccagcc tgggcccagc ccaccaccag gggtcagcag 600
agcccaggag gngacaccgy ccgcccgccg ctcccagacc tcgcccgagt cggctctgtt 660
gtttgaataa acgtgaacgt gaacccaggc ggaagggacc cgggaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                     752

```

<210> 100

<211> 3059

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3059)

<223> n equals a,t,g, or c

<400> 100

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tttctcccca tctttcacct tcctaatttc agtgaaattg gagcgatttg aaattccaat 180
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caaactgaaa aggaaggagc tgaggaacca ttacctcaaa gacattgaac gaatgtatgg 300
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tttgagctt ccaatgcctc ttgtcttcct atttcagaag tttaaatatt aagcatgaca 720
gaaaatatgt attaacacta ctcaaagcaa aagtgcctgca gggcttttaa attctcttcc 780
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ctgttaaaat gcatgattgc agaattgttt agattttgtg tttattcttg atgaaaagct 2940
ttgtttgttc ttgtttttta gtttgcactc aaatcttaag aaataaatcc acccatgtta 3000
tcaaaaaaaa aaaaaaaanc ccgggggggg gcccgaacc aaatccnccc aaggggggnn 3059

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<211> 1682  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<400> 101  
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ctagtgggct cttcccagag tggcagagct ggggggagaat ggagaacttg gcctcttattc 180  
gatgaattaa gcaacaatgt aactggctctt gacttgtcat attcccccat gcaatcctag 240  
gtctgtattg ctcaatttta ggaagccttt gctactccat cagtaggttt agatttgagc 300  
ttttgagacc tggctatgga aaagaaagac acttgagaat ttagtggttg ggtctgtaca 360  
gatgatgcta cccaatttgg ctttgaagga tcaagtaaca ggttgaaaac tatttttata 420  
aaggaataac tttttcagtt cccttcttcc ttccctctca atccactagc tttcatgttg 480  
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tgatcattgt tgggtgaaaa acgtaagggtt attttgtgtt ttttaagttg ttttacaatt 660  
ctttcctggg gaaattattt ctggagggga aaaagatcca ttctacgtat ccttgtggag 720  
aaaagctaaa taacctttta gaatgtgggt ggtattggag aaagaagatg aattatagct 780  
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aatttgggga aagtttaagc aaatctggct ttgtagtctt gatgttataa gtgactttgt 900  
gatcaaactg tcaggcttgg gttcttgtta tagaatgctt ggtatagaaa aacctgcca 960  
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aa 1682

<210> 102  
<211> 938  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (30)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
 <222> (812)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (913)  
 <223> n equals a,t,g, or c

<400> 102  
 cccacgcgtc cgtccgggtg ctccgcgcgn gacctggacg cagagaagcc agagactttc 60  
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 cccggagctg gatttatggc ggctacggag ccgattcttg cggccactgg gattcccgcg 300  
 gcggtgccac cggagaaaact ggaaggagcc ggttcgagct cagcccctga gcgttaactgt 360  
 gtgggtcctc cgtgcgcaga ggctcaccg cctgcccctg agccttccag tcccaacgcc 420  
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 gcatcactgg ctgagcgggt gagctgcggg cngccagggc cgggcgctct gtgcggactg 840  
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<210> 103  
 <211> 2012  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1993)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2002)  
 <223> n equals a,t,g, or c

<400> 103  
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 tctctttccc agaacaatct ggagtttgcc agaaaactct gtaaacagga gtcgtgctgt 180  
 gtgtgaactg taaactcttc tctccaggcg tcgaggggac ctttgcttta cttgcagct 240  
 gggctacatc agacgtgtgc attggaaaca taaacttcct taactgggaa aagaatgctt 300  
 ctctgtcttc maaatarttc tgctatgtga catttttgcc atcatgaatt ttacatcagt 360  
 gmtagctctt tgttttacgt gtttcattkg gcaggtcaca aaggctcttg gctaccacac 420  
 atacgtgcat acacacacac acacacacac acacacacac acacactcat aaaggatttt 480

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cttttctgct ttaccttta ttttcagtct acttggcttg taatgaaagg tagagcctta 540
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aggtttttaa attcagtttc ttttctgggg atttaacatg gaaggacttg gagggcaaat 660
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actttttaat aaagtatatt gaaagttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2012

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&lt;210&gt; 104

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 104

```

tcctcctggg aagcctggcc tgcctncccc gcaaaagggtg tttttgcgct ggttcaatga 60
atagatgatg cagaggcccc attggagaca cgtgaatggc gtgtgcggcc atcagttccc 120
ggctgggggg caggtgttgc ttcggcccc ccctccggc cggcgtgtgc gagtgcgcc 180
ctggctgtga gtgttgaccg ttcctctccc ctgtacatag cmcagaccag tcctgagtgg 240
gtgactcctg agtgggtgac gcgcagacgg gatttctcag gtcatttcta tggctgacat 300
gatggctgct gctttggctg ccaccacccc cgggcccagc ctgtctgaaa ttcagggttt 360
aggccgaaaa acccggtggg gaggggtggg gaagccggagm tctgtggcgg ggctggaggg 420
ctggggtgca cttagtttg gggcgggacg ggagccggcc ttgtgactgg cgtgtctg 480
ctgctgctcc cgaacggagg ggtcggggtt ggcttgcctg gccctcagag cccagtgggt 540
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gaatgtatcc ctccctcag ttttaacctg agctgccgaa cgcacagtgg gccggggggc 660
aggctggggg aagcggggcc caattacgga tcccgaggat tacagggtcc gacgtgatgt 720
cgcttctctg gtgccagct cccttccctg tctgagacta gctctggggg tggcgggggc 780

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ttgcggagag ccgcttatgg gtgtgggtccg tccagacacc ttgtttcaag ggggatgggc 960
gtgagcgggc aagcagagca tccccaccgc tgagcaagaa ctttttcttg tttttaaac 1020
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aaaaaaaaaa attc 1094
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<210> 105

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 105

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aaaggaaggc caggggttca catagggccc cagcgagttt cccaggagtt agaggggatgc 180
gaggctaaca agttccaaaa acatctgccc cgatgctcta gtgtttggar gtgggcagga 240
tggaagaacag tgctgttttg ggggaaaaca ggaaatcttg ttaggcttga gtgaggtgtt 300
tgcttccttc ttgccacagc ctgggttctc tccaccagc aggttttctg ttgtggtccc 360
gtgggagagg ccagactgga ttattcctcc tttgtgatc ctgggtcaca ctccaccagc 420
cagggttttt gacggagaca gcaaataagg ctctgcaaat caatcaaagg ctgcaaccct 480
atggcctctt ggagacagat gatgactggc aaggactaga gagcaggagt gcctggccag 540
gtcggctctg actctcctga ctctccatcg ctctgtccaa ggagaacccg gagaggctct 600
gggtgattc agaggttact gctttatatt cgtccaaact gtgttagtct aggccttagga 660
cagcttcaga atctgacacc ttgccttgct cttgccacca ggacacctat gtcaacaggc 720
caaacagcca tgcatctata aaggtcatca tcttctgcca cctttactgg gttctaaatg 780
ctctctgata attcagagag cattgggtct gggaaagagt aagaggaaca ctagaagctc 840
agcatgactt aaacaggttg tagcaaaagc agtttatcat caactcttcc agtggtaaac 900
tgtggtttcc ccaagctgca caggaggcca gaaaccacaa gtatgatgac taggaagcct 960
actgtcatga sagtggggag acaggcagca aagcttatga aggaggtaca gaattattct 1020
tgctgtgtaa gacagaatac ggggttaatc tagtctaggc accagatttt tttcccgctt 1080
gataaggaaa gctagcagaa agtttattta aaccacttct tgagctttat cttttttgac 1140
aatatactgg agaaactttg aagaacaagt tcaaactgat acatatacac atattttttt 1200
gataatgtaa atacagtgac catgttaacc taccctgcac tgctttaagt gaacatactt 1260
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aagatctagt ccaatctttt tctagagaaa aagataatct gaagctcaca aagatgaagt 1620
gacttcctca aaatcacatg gtccaggaca gaaacaagat taaaacctgg atccacagac 1680
tgtgcgcctc agaaggaata atcggtaaat taagaattgc tactcgaagg tgccagaatg 1740
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tgaacaattc tttctttctg ccaagaaaca aagttttgga tgagctttta tatatggaac 1920
ttactccaac aggactgagg gaccaaggaa acatgatggg ggaggcagag agggcaagag 1980
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taaaactgta gcatagcttt tgtcacggtc actagctgat ccctcaggtc tgctgcaaac 2040
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aacagtttgc ccaggaactg ggggatcata tatgtcttag tggacagggg tctgaagtac 2160
actggaattt actgagaaac ttgtttgtaa aaactatagt taataattat tgcattttct 2220
tacaaaaata tattttggaa aattgtatac tgtcaattaa agtgtttttg tgtaaaaaaa 2280
aaaaaaaaa actcgta 2297

```

<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 106

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tcgaccacag cgtccgcctg tgggacgcgg tgggtggccgt tgggtcgagg gagtgagcgg 60
tatttgcmtc gtttttcttg cttgttttcc ccccgtaga cttgtcggt agagcgcgg 120
tatgggccgc aagaagaaga agcagctgaa gccgtggtgc tggattgta atagagattt 180
tgatgatgag aagattctta tacaacacca aaaagcaaaa cattttaaat gtcatatatg 240
tcataagaag ttgtacacag gacctggctt agctattcat tgcattgcagg tgcataaaga 300
gacaatagat gctgtaccaa atgcatacct gggagaacag acatkgattg gaaatatatg 360
gtatggaarg tattccagaa aaagatatkg atgaaagaag acgacttctt ggaacagana 420
acnccagaga gtccaaaaaa ag 442

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<210> 107

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<400> 107

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ttgatctgcg gctgtcgagg cctgaggcag tggaggctga ggctatgatg gcggccatgg 60
cgacggctcg agtgcggtg gggccgcggg gcgccaggc gctctggcgc atgccgtggc 120
tgccggtggt tttgtcggtg gcggcgccgg cgccggcggc agcggcgagg cagcaggtcc 180
cgctggtgct tgggtcgagt gaccgggact tgtgggctcc tgcggccgac actcatgaag 240
gccacatcac cagcgacttg cagctctcta cctacttaga tcccgccttg gagctgggtc 300
ccaggaatgt gctgctgttc ctgcaggaca agctgagcat tgaggatttc acagcatatg 360
gcgggtgtgt tggaacaag caggacagcg ctttttctaa cctagagaat gccctggacc 420
tggccccctc ctcactggtg cttcctgccg tcgactggtg tgcagtcagc actctgacca 480

```

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cttacctgca ggagaagctc ggggccagcc ccttgcatgt ggacctggcc accctgcggg 540
agctgaagct caatgccagc ctccctgctc tgctgctcat tcgcctgccc tacacagcca 600
gctctggtct gatggcacc agggaagtcc tcacaggcaa cgatgaggtc atcgggcagg 660
tcctgagcac actcaagtcc gaagatgtcc catacacagc ggccctcaca gcggtccgcc 720
cttccagggt gggccgtgat gtagccgtgg tggccggagg gctaggtcgc cagctgctac 780
aaaaacagcc agtatcacct gtgatccatc ctccctgtgag ttacaatgac accgctcccc 840
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ctccctcac ctttggggtg caggaaactca acctgactgg ctccctctgg aatgactcct 960
ttgccagcty tcactgacct atgaacgact ctttngtacc acagtgacat taaagttat 1019

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<210> 108

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 108

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cttgaaaact tagtttacta tacatcttgc cctattaata tgttctctta acgtgtgcca 60
ttgttctctt tgaccatttt cctataatga tgttgatggt caacacctgg actgaatgtc 120
tgttctcaga tcccttggat gttacagatg aggcagtctg actgtccttt ctacttgaaa 180
gattagaata tgtatccaaa tggcattcac gtgtcactta gcaaggtttg ctgatgcttc 240
aaagagctta gtttgyggtt tcctggacgt ggaaacaagt atctgagttc cctggagatc 300
aacgggatga ggtgttacag ctgcctccct cttcatgcaa tctggtgagc agtggtgagc 360
gcggggagcc agagaaaact gccagttata taacttctct ttggcttttc ttcattctgt 420
aaacaaggat aatactgaac tgtaagggtt agtggagagt ttttaattaa aagaatgtgt 480
gaaaagtaca tgacacagta gttgcttgat aatagttact agtagtagta ttcttactaa 540
gacccaatac aaatggatta tttaaaccaa gtttatgagt tggttttttt cattttcyat 600
ttgtatttta ttaagagtgc ttttcttatg gtgatttttt tnaattgcga tttgatattg 660
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<210> 109

<211> 743

<212> DNA

<213> Homo sapiens

<400> 109

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agcatgggat attttaatag tattatacat aatattttta catagaaaac tttacatagc 120
atttcatatt atataattct gcttattctt tcaaaaattt atacatccat tgggcaagga 180
atggtttttca ttaaattacc aatattaaat gcacttaatc atttgtgata ggttaaacca 240
aagtaactat taactaactt ttaggcattt taaggaggta aaacatacat tttacacata 300
aatatttgat gcaaatatgc agataaaatt ttttaaaaaat tagaactctg agtaaaacac 360
ctttgataga ttatattggt ttgttttgag agcaaggatt tccagatatg ttcattcttt 420
aaaacactca gctttggttt ctttgtttcc caaactgcaa agctgctgat aacaaaactc 480
caggattcca tgtgagttca gctatgtcta ctttaacaca aatattaaaa cagaattcag 540
raaatgcagt attaaggatc cagcttctat tgaaaccaat atccatttgc atcataacaa 600
caaacatttg aatgagatgg tcacacttgt acttatcagc aggttccttt aataacaaag 660

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actactaaat gtatatacctt aatcacaaaa gaacaacaaa aaaaatacag gttttttttt 720  
tttcatttcg tacaaaagtc acc 743

<210> 110

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 110

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tatttgtatt acaaagaact tgaaatttac tttcttagtt gattatatta aatgatgtat 120  
atattatatg tgggtttataa gctcaacact ggccattttt ttagttttat tgttaaatgg 180  
tatttttcta tgtttaatta taatagatct ggctttttct ggatagcata aagatcactg 240  
aactatatat atataagara caagagttct atttttagcac aaaggcattt tatattattt 300  
attgaatcca taagtttggtt ttcgtcaaaa acattccata ttatttctgc tcctttttat 360  
ttgtatagtt tgttatttaa agaaatggca gtccttcctg ttcttaatac aataaaaattg 420  
aaataatgca cctagtaatg tggccgacat ctcttctcac caccatggac tgttttcaac 480  
aacagttgat cttctggtct gtgctgagag gcgcatgcat gtctttcgtc acgtcgggca 540  
gcacacctgc tgtgaaatac tgctttcatc tacctcttca gaaggcttct tgcttgttga 600  
caagtagcgc aaaggcttta ttctggactg gctatctcat aaaanggatt tctgtaagac 660  
tttgacagtgt cattccctca gaaccyaggt ttgtttctaa agccacggta ttgtccrrgr 720  
rccctgtgt ktggggncag gtagctatcc ctcccatgtc attagtaatc ctttaggatt 780  
ttaaggtaca atggg 795

<210> 111

<211> 1332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature



&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1194)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1237)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1241)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1300)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 111

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ncgggncagc agctcccagt gtgacctgac aaaaacacgt aggggcaggg acggtcccca 60
ccccagggga cacaacccct ggtcttgac cagtagagga cacggagggt tcagaccct 120
cctcagaccc tccccacatc tgaaactgcc tcccccaac caccagcagc agcagggccc 180
tcctcccca ccagctctcc ccacagggcc cctcagcatc atggagaccc gcagcggggc 240
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agagcccaac tttcctaact cgtgctccct tccgccttct tttccgtact gtgaagaaag 360
aactctccac cccagctccc accctgccct ggccctgggtg gaggaactgt gcctccatcc 420
ccagaagaaa cagccccctc tgctgctggg gtgggactgt ctgtgtgccc tgtgggggtc 480
cgtgtgagca ggcccacctg gctccagacc cgcccccaac ctgagacaga accaggctga 540
gccaggctc cacccccacc cccgtttgct gggggctcct ccagccgccc ccatgggraag 600
aggcctggtg ccgctcacc cacagaggtc tgtgccaggt gcgcttctgc aggtggagcc 660
aagctctccc tgaggccaga ggcggggcct gggccgggag cccaggggaa ggccaggctg 720
gaccccggtc ycacaccac atccagcctg caggcctctc tgcagtcctc tcacctccc 780
tmagctcccc ttcctctgca gtcacctca gctcccttc cttgcccgcc tctcccccg 840
ccgccccacc agttaaacgg atgaccaaag acctttctta tgccggaagc aaaaaccaa 900
actttttgtt ggctttttcc tttgtsgcct ccccagcacc tgccctcca gtctccacc 960
ccggccccag gctggaagcc tccctccact taagttattg ttttaaacca aagtttacag 1020
tgtctgttg tgccaagac cttctctctc caccctcct ccatccacc tgaggacct 1080
ggggctcagt ggaggcagg cctgcccc cttcccttc cggctcctg cccagcctg 1140
ggggaaggga raaaggagg gggaraaagc ggggttcttc accccctcag ggantggggc 1200
acggggagcc ctttcttccc tggaccctg ggcttgnttc ntgggggggc tcttccaaga 1260
acccctcttc taagggaacc aagtttcacc cgttcgtggn tgggggatgt tgggatttct 1320
aaggcaaaag ag 1332

```

&lt;210&gt; 112

&lt;211&gt; 743

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 112

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ttgctggtct gatccatgca catggccagg ctgctaggct cttgtgctgg gcnggaagtc 60
ggtgcggatg gccagctcca ggatgaccgc ccgggacccg ctcacaaata aggtggccct 120
ggtaacggcc tccaccgacg ggatcggctt cgcacgcgcc ggcgtttggc ccaggacagg 180
gccacgtggt cgtcagcagc cggaagcagc agaatgtgga ccaggcgggtg gcacgctgca 240
rggggagggg ctgagcgtga cgggcacctg tncantgntg gggaaggcgg aggaccggga 300
gcggctggtg gccacggctg tgaagcttca tggaggtatc gatatcctag tctccaatgc 360
tgctgtcaac cttttctttg gaagcataat ggatgtcact gaggagggtg gggacaagct 420
ctggatggac aaggaaaaag aggaaagcat gaaagaaacc ctgcggataa gaaggttagg 480
cgagccagag gattgtgctg gcatcgtgtc tttcctgtgc tctgaagatg ccagctacat 540
cactggggaa acagtgggtg tgggtggagg aaccccgctc cgcctctgan ggaccgggag 600
acagcccaca ggccagantt gggctctagc tcctggtgst gttcctgcat tcamccaytg 660
gscttttccc acctytgytc amcttactgt tcacctcatc aaatcagttc tgccctgtga 720
aaagatccag ccttcctgc cgt 743
```

<210> 113

<211> 1690

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1659)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1664)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1676)  
 <223> n equals a,t,g, or c

<400> 113  
 aattcggcac cactcagtcc cacaggcctc ggccagggac acaccggcca cgtccgcttc 60  
 ttggctgcag tccagctgcc agatggcttc aacctgctct gcccaccccc accacctccc 120  
 ccagacacag gccccgagaa gctgccatca ctggagcacc gggactcccc ttggcaccga 180  
 ggccccgccc ctgccaggcc taaaatgctg gttatcagtg gaggtgatgg ctatgaggac 240  
 ttccgactca gcagtggggg cgccasagca gtgagactgt gggtcgagac gacagcacia 300  
 accacctyct cctgtggagg gtgtgaccct gtctgccgtg gcccaggact sgcccgccca 360  
 cctgccttca gctgtcttgc ctctccctag cccacacgca gactttgacc aggagtatcc 420  
 agccaggggg cacatgtgcy kgcrtgggct ctgcttgctc tcgcggaaga ttcctgatgg 480  
 aacacccact ggccagccag gccatggctt ctcccgaccc tctggctgcc ccggtgcttc 540  
 cagtcatgat cgggtggggg acatgtgggc tgaccaggac ctctgaccct ggagcttcta 600  
 ccaaagacac agctgggtct ggacccacag ggsstgggga ggcccatgtg caatatattg 660  
 aggggtttct ggagggcagc aggaaggctg gggaattccc catgtacagt atttatgttt 720  
 ctttttagat gtgtaccttc ccaagcactt atttatgcag tgacctggtc acctggggtg 780  
 ggggtgattt gaggaatga catgaggaaa agaaacctat tcctgccctg gggaccaccc 840  
 tgggactcta accaagcctt cctggaggga cccatgcgcc cctgagcccc attccattca 900  
 tacagacaca cacgtacgca cactgcatgt ccaaggccct aaacattgcc cgttgacata 960  
 aactttccag ggccccagcc tgatggggct gccctcagtc ctctagatca agatgctgac 1020  
 tattaggggg cagtgattgc catctgggga cctgtcaggc tttgtcattt cccagtttgt 1080  
 tgggtggtgcc tttagtgggt ccctaatttg ggaacactga tggggccttg gacagggctt 1140  
 tctctcaggt aggagaaatg ggcccatgat ctctcacag tcgccccag tccttgcccc 1200  
 tgcttccctg tgtctcatgc actggcacat atggtcacct tggagggcag acctaggagc 1260  
 ccctctgacc actgaatccg tctccacacc ccttctgcca agggaagccc cttcaggaag 1320  
 gaccccccaa agctgagggg ctgaatgtag ctttttcaac agagaaggct cccacttgag 1380  
 agcagcctct acctgacccc ctggaccaca gagagccact ctgacctca gccccctcgc 1440  
 ttcttcagct aaaactccaa aggtttggtt tcagatgggg tttgttttgt tctgtttggt 1500  
 tttggttttg tttggggtgg gtgggtcatt gcggtcttag attatgtttc tcttgctacc 1560  
 aaacagtcac gtattaactc tctttggatg atgaagttaa aagagtcaat aaatagaaac 1620  
 accagatgac tgcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaanaaa 1680  
 aaaaaaaaaa 1690

<210> 114  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<400> 114

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ctctgggcct gggctctgggg gagaggggtg ccagggagac tcagctctcc ttgggggctg 60
gccagctgac tgaggggtaca caggattggg tctagacctt gatgcctggg tggagggccc 120
ttgtaagggg ccatagcctc ttcaggacca actggagggg gagttaggaa acaccagctc 180
ctgcctgggg cagtgaggga atgggagcag ctgtgggcgc ctcatctcag gcaagtcctc 240
cccaaacctt cagatgcagt gagacctggc cttcctggtt tgcttttcag actttgtttt 300
cagaatgctt ttatctcgag tgtgcccttc ggccctcaca agagcccctg gggagtaggt 360
gggtggcctgt gccgtcatcc ccatttcaaa gcaggagct gaggtcctgg gaggggaaag 420
tgcttgccctg aggtcccact gtgttagtggt gtgggcagga ctggaactcg gttctccaac 480
agcccagagc tcaactctttt acaccagag gtggagcagg tggcttaggg ggtggttatg 540
tacttcacaa gccaattccc ttcagccagg agtcctggg tgcatttccg tgtcagaaac 600
agtaccgagt cccacccctt                                     620
```

<210> 115

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 115

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tcgacccacg cgtccgcttc tcggccctt gtagaacctc tgtcaggttc agcctactcg 60
cctctactcc agcctccact ccggcctcca ccatgtccgt caggtgacct agaagtccta 120
caagggtgtc acctccggcc cccgggctt cagcagccgc tcctacacca gcgggcctgg 180
ctcccgcctc agctcgtccg ccttctcccg ggtgggcggc asttccgggg gggcctgaac 240
agcagcatga gtgtggctcg gggctacggc ggcggggccg gggatatggg ggcacacgg 300
ccgtctcagt gaaccagagc ctgctgagcc cccttwaagc tggaatkkgg tcccaacatc 360
```

```
caagctgtgc gcaacccagg agaaggagca gntcaagacc ttcaacaaca anttggcttc 420
gttcatcgac aagtgaagca ctggagcagc agaacaaatt ttggagacc aattggagct 480
tcttaaagca gcagaagacg cgcggagaac ntagacaaat ntgcgagagt aaatnagaac 540
tt 542
```

<210> 116

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<400> 116

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aattcaaccg tcgttatccc aaaattcagt ttctactttc caccggccct tccggcacta 60
tgctggatgg tgtactggag ggaaaactga atgcggcggt tattgatgga cccattaacc 120
atactgccat cgacgggata ccggtatacc gcgaggaact gatgatcgtc acgccacaag 180
gatatgcgcc agtaaccctg gccagtcagg ttaatggcag taacatttat gccttcccg 240
ccaattgttc gtatcgtcgc cacttcgaga gctggtttca tgctgacggt gccgctcccg 300
gaactatcca tgagatggag tcttatcacg gaatgttggc ctgtgtgatc gcaggagcag 360
gcattgcgct tattccgcgc tctatgctgg aaagtatgcc ggggcatcac cargttgaan 420
cgknggccgt tagctgagca atggcggtgg ttaacaacct ggctggctct gccgtcgtgg 480
tgcgaaaaaa cgttccgctc gaaggggggc ccggtancca attcg 525
```

<210> 117

<211> 728

<212> DNA

<213> Homo sapiens

<400> 117

```
aacgagcgcc tgctaggatc agcgggtggtg gttccgcgat ggtaggcggc ggcggggtcg 60
gcggcgccct cctggagaat gccaaacccc tcatctacca gcgctctggg gagcggcctg 120
tgacggcagg cgaggaggac gagcaggttc ccgacagcat cgacgcacgc gagatcttcg 180
atctgattcg ctccatcaat gacccggagc atccactgac gctagaggag ttgaacgtag 240
tagagcaggt gcgggttcag gttagcgacc ccgagagtac agtggctgtg gctttcacac 300
caaccattcc gactgcagc atggccaccc ttattgggtc gtccatcaag gtcaagcttc 360
tgcgctccct tcctcagcgt ttcaagatgg acgtgcacat tactccgggg acccatgcct 420
cagagcatgc agtgaacaag caacttgca ataaaggagcg ggtggcagct gccctggaga 480
acacccacct cttggagggt gtgaatcagt gcctgtcagc ccgctcctga gcctggcctt 540
```

```

tgaccacctca gcctgcatac tggatccctg gtcccagctc ctgccagggc tgttaccgtt 600
gttttcttga atcactcaca atgagaaact aacattttgc tttttgtaat aaagttaatt 660
tatattcarw tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccgggggg 720
gggcccccc                                     728

```

```

<210> 118
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (944)
<223> n equals a,t,g, or c

```

```

<400> 118
agaagtacgg acccctgaag cccctgccac agaccccgca cctggaggas gacttgaagg 60
aggtgctgcg ttctgaggct ggcacgaac tcatcatcga ggacgacatc agggccgaga 120
agcagaagag gaagcctggg ctgcggcgga gcccatacaag aaagtccgga agtctctggc 180
tcttgacatt gtggatgagg atgtgaagct gatgatgtcc aactgcccc agtctctatc 240
cttgccgaca actgccccctt caaactcttc cagcctcacc ctgtcaggta tcaaagaaga 300
caacagcttg ctcaaccagg gcttcttgca ggccaagccc gagaaggcag cagtggcccc 360
gaagccccga agccacttca cgacacctgc cctatgtcc agtgcctgga agacggtggc 420
ctgcgggggg accagggacc agcttttcat gcaggagaaa gcccggcagc tcctggggccg 480
cctgaagccc agccacacat ctcgaccct catcttgtcc tgagggtgtg aggggtgtcac 540
gagcccatc tcatgtttac aggggttgtg ggggcagagg gggctctgtga atctgagagt 600
cattcaggtg acctcctgca gggagccttc tgccaccagc cctccccag actctcaggt 660
ggagcaacag ggccatgtgc tgccctgttg ccgagcccag ctgtgggcgg ctctcgtg 720
taacaacaaa gttccacttc caggctctgc tggttccctc cccaaggcca caggagagctc 780
cgtcagcttc tccaagccc acgtcaggcc tggcctcatc tcagaccctg cttaggatgg 840
gggatgtggc caggggtgct cctgtgctca cctctcttg gtgcattttt ttggaagaat 900
aaaattgcct ctctcttgn aaaaaaaaaa aaaaaaaaaa gggnggcc 948

```

```

<210> 119
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (125)

```

<223> n equals a,t,g, or c

<400> 119

```
tcgacccacg cggtcgcgtt ggtggggctg gctgctttct cgcgtttccc cccaaccccg 60
tccggcctcg cccagcggtt ccacgcggaa ccaactgcca gaggcgcggc gcggcgtcga 120
gcngngcgag tgtgaggaag ccgcccgcctc agccgagcgc gcgggcccgc ccagggcggt 180
agttttcggc gcgcagtcgc ggtcccccg c 211
```

<210> 120

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 120

```
tcgacccacg cgtccggact gttctaagt agttcgggtg ggggagcttc acgaggggag 60
gctgctctgt gaaggaaccg cttttctctc cgcgtgtctc acccttttct ccccatatct 120
gtttggacat gagctgaggg cacggtcgcg ggcggtcagc ctgttcgcag ctacggcgag 180
gaggggcgcg attgytcctt gttgcgcctc cgttagtggt ccgcgtccat tccgcgcggg 240
gtcccgattt taggggtagg gagaagtgtc agcttcaggc atcgcgaggc gtggcgggcc 300
catggccccg ctgggaggcg ccccgcggtt ggtactgctg ttcagcggca agaggaaatc 360
cggaaggac ttcgtgaccg aggcgctgca gacgagactt ggagctgatg tctgtgctgt 420
cctccggtct tctgtgccac tcaaggaaca gtatgtctag gagcatggct tgaacttcca 480
gagactcctg gacaccagca cctacaagga ggcctttcgg aaggacatga tccgctgggg 540
agaggagaaa cgccaggctg acccaggctt cttttgcagg aagattgttg agggcatctc 600
ccagcccatc tggctggtga gtgacacacg gagagtgtct gacatccagt ggtttcggga 660
ggcctatggg gccgtgacgc agacgggtccg cggtgtagcg ttggagcaga gccgacagca 720
gcggggctgg gtgttcacgc caggggtgga cgatgctgag tcagaatgtg gcctggacaa 780
cttcggggac tttgactggg tcatcgagaa ccatggagtt gaacagcgcc tggaggagca 840
gttggaagac ctgatagaat ttatccgctc cagactttag tcactagggt ctaggagtga 900
gctggggcct gctgaggttg ggggtgggct gactctgcaa aatgggggtg tccccgac 960
ctggccgagg tgaggaacag acaggggggg tctagattct gagggggttg gtggatattg 1020
ggcaaggcag gaaacctctg gagacctcat tttctccatg gggaagacag ccatgctctt 1080
caggaggaga cccaagggc aaaggagggt gtcttgctg tgcttgaagg cgaaacctgt 1140
ccatatcccc agtgccagtc cctcagcct gtggtggcct tgcatcctga ctggatgttc 1200
tcagccccct gttctgggca agaaccaga gctccccagt gtggatacta ataaacctct 1260
tgagacacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 1308
```

<210> 121

<211> 2516

<212> DNA

<213> Homo sapiens

<400> 121

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gattgacatt ccagtgaat gatgggagtt aattgattta atttagatta gttgaaaatt 60
attacaaaat attctaaaag ggttttttgt ggtacttcaa gaaacctgat tagttttgat 120
ctattgaaat cacaaaagta gaacagggcw ytttattttt gtataattta ggattaggta 180
tgcttctttg ttctaacaag tcatgttttc taaccttctt ttcactaagc aaaccagaac 240
agatttgaac tgttatgggt tatatattag tatggagatc agctcagatg acattaaaaa 300
tgccgtagtg ttattcttgt atgccaaatc ttttttccc caaaattagc actttaattt 360
tatttactgt tataatattt gttttcttag attaggtagg aaatcttaat ttggccaccg 420
cctactttga caagtaaata ttacatcata cgattttgca acattaaatt agaacactag 480
```

```
aaactaaaaa attatgtttc agtgaatgct acaactaagc attttttttt ttttaagaaa 540
acaattgtat tatgttttgt tgccttgcca ctttgagtat cttatctgaa aatctgttcc 600
ttgccatgtt tttctcctgt taacataaac tatgtgccct gtgaatttct ggggactgaa 660
tttgaaattg ctectgccaa ccgtttgtgg cctggcgtgt atctgaatgc ctgaatatct 720
ccccgctgaa tgaatttcgt attctgccct gaattcactc gggatatattg attggctgga 780
tgatcttggt gccgccact tgacgtttcc agaagagtca ccgaagaaaa gaaccaggag 840
tgtagaggat gatgaggagg gtcacctgat ctgtcagagt ggagacgtac taagtgcaag 900
atgtatagaa ttttttcaa cacttattaa cttttcagat aacataatct atatatagat 960
taagctttca gggatttgga aatctttttt tctttctctt ttttgttttt gttttatttt 1020
tccatttctt ttggtggggg ggattgtatt tttgctttct ttagaatgt aatgtttgtt 1080
atatagaact tccagaacag taatcaaatt aatgaaatta gacctataaa ttatgttttt 1140
tgatggtggt gaccaataaa atatctagtg ataaggaaa ttgtagcatc aactagaata 1200
atctacattg atagcattta ttgtgataag tacattgttt ccacttcttg atatgactga 1260
gattttattc tctcttttag atgaaattgt tgatacttta ggtgaaggag cttttggaaa 1320
agttgtggag tgcatcgatc ataaagcggg aggtagacat gtagcagtaa aaatagttaa 1380
aaatgtggat agatactgtg aagctgctcg ctcaaaaata caagttctgg aacatctgaa 1440
tacaacagac cccaacagta ctttcgcgtg tgtccagatg ttggaatggt ttgagcatca 1500
tggtcacatt tgcattgttt ttgaactatt gggacttagt acttacgact tcattaaaga 1560
aaatggtttt ctaccatttc gactggatca tatcagaaag atggcatatc agatatgcaa 1620
gtctgtgaat tttttgcaca gtaataagtt gactcacaca gacttaaagc ctgaaaacat 1680
cttatttgtg cagctcgact acacagaggc gtataatccc aaaataaaac gtgatgaacg 1740
caccttaata aatccagata ttaaagttgt agactttggt agtgcaacat atgatgacga 1800
acatcacagt acattggtat ctacaagaca ttatagagca cctgaagtta ttttagccct 1860
aggggtggtc caacatgtg atgtctggag cataggatgc attcttattg aatactatct 1920
tggtgttacc gtatttccaa cacacgatag taaggagcat ttagcaatga tggaaaggat 1980
tcttggaact ctacaaaaac atatgataca gaaaaccagg aaacgtaaat attttcacca 2040
cgatcgatta gactgggatg aacacagttc tgccggcaga tatgtttcaa gacgctgtaa 2100
acctctgaag gaatttatgc tttctcaaga tgttgaacat gagcgtctct ttgacctcat 2160
tcagaaaatg ttggagtatg atccagccaa aagaattact ctcagagaag ccttaaagca 2220
tcctttcttt gaccttctga agaaaagtat atagatctgt aattggacag ctctctcgaa 2280
gagatcttac agactgtatc agtctaattt ttaaatttta agttattttg tacagctttg 2340
taaatcttta acatttttat attgccatgt ttattttgtt tgggtaattt ggttcattaa 2400
gtacatagct aaggtaatga acatcttttt cagtaattgt aaagtgattt attcagaata 2460
aattttttgt gcttatgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg agggggg 2516
```

<210> 122

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>



<221> misc feature

<222> (1125)

<223> n equals a,t,g, or c

<400> 122

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gtggcgacg ggggtgggagc ggacccaggc cgggagcagg cgccgccgcc agtgagaacc 60
ggggccggag ccgggtgcgg atttgctggg gctgagtcgg gggcgcgcg gccctgacct 120
ctgccctctg acctctcccc tagcaggcga ccatggggaa cgtgttggt gccagctcgc 180
cgcccgacg gccgccaccg ccgcctgcgc cgccctcgt ggggctgccg ccacctccgc 240
cctcgccgcc gggcttcacg ctgccgccgc tgggaggcag cctgggcgcc ggcaccagta 300
cgaktcgarg ttcggaacgg acccccgggg ctgcaaccgc cagcgccctca ggggccgccg 360
aggatggggc ctgcggctgc ctgccaacc cgggcacatt cgaggagtgc caccggaagt 420
gcaaggagct gtttccatt cagatggagg gtgtcaagct cacagtcaac aaagggttga 480
gtaaccattt tcaggtaaac cacacagtag ccctcagcac aatcggggag tccaactacc 540
acttcggggg cacatatgtg gggacaaagc agctgagtc cacagaggcg ttccctgtac 600
tgggtgggtga catggacaac agtggcagtc tcaacgctca ggtcattcac cagctggggc 660
ccggtctcag gtccaagatg gccatccaga ccagcagtc gaagtttgt aactggcagg 720
tggacgggga gtatcggggc tctgacttca cagcagccgt caccctgggg aaccagacg 780
tcctcgtggg ttcaggaatc ctctagccc actacctcca gagcatcacg ccttgccctg 840
ccctgggtgg agagctggtc taccaccggc ggcttgaga ggaggcact gtcattgtc 900
tagctgggaa atacacattg aacaactggt tggcaacggt aacgttggg caggcgggca 960
tgacgcaac atactaccac aaagccagt accagctgca ggtgggtgtg gagtttgagg 1020
ccagcacaag gwtgcaggac accagcgtct ccnttsggg accagcttg aacttgccca 1080
agggccaacc tcytcttca aaggstctgt tgggataagc aaannggat tcgtggggg 1139
```

<210> 123

<211> 2114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1966)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2039)

<223> n equals a,t,g, or c

<400> 123

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gcgcgaccc aagcgtctg gagagcggcg ggctgctgca tgagattttc acgtcgccgc 180
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tggataagga agcactgaag gatgagtacg atgaccttcc tgacctcact gctgcccagc 540
aggagactct gagtgactgg gagtctcagt tcactttcaa gtatcatcac gtgggcaaac 600
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tgctgaagga gggggaggag cccactgtgt actcagatga ggaagaacca aaagatgaga 660
gtgcccggaa aaatgattaa agcattcagt ggaagtatat ctatttttgt attttgcaaa 720
atcattttgt acagtccact ctgtctttaa aacatagtga ttacaatatt tagaaagttt 780
tgagcacttg ctataagttt ttttaattaac atcactagtg acactaataa aattaacttc 840
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aactacctac agag 2114

```

&lt;210&gt; 124

&lt;211&gt; 583

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 124

```

gcccggccta ttcccttggg cttttaaaaa gcgtcttggg tggagggtgt gcagggtgctc 60
accaagcccc cagtaaccca agttgcatgt atccccaggg cacttttgtg attcccctgc 120
ttgtgactgc acaccgggac cccactcaat tcaaagaccc agactgcttc aaccctacca 180
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cacctgtgta cccggcaaaag cagatgtgcc tgggcacagg cctggcccccac tcgggtatct 360
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ccatcaacct cacctgcagt gcactggcct gggcagtgtc cccccagact tccagctcca 480
gccagtggcc tgctgaggtc aggtccact atggtgggct cactggccct caaacctcca 540
taccctccts ggtcaataaa ggccctaaat tgcaaaaaaa aaa 583

```

&lt;210&gt; 125

&lt;211&gt; 1987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (517)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1960)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

```

cagtacngtc cgantccccg gtcgaccac gcgtccgatg gcggcggagg aacctcagca 60
gcagaagcag gagccgctgg gcagcgactc cgaagtgtta actgtctggc ctatgatgaa 120
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gkctcagcc cccaggctgt gagctccttg gggcaggccc tcaataaatg tgaaactgct 1920

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gctgcaaaaa aaaaaaaaaa aaaaaaaggg ggccgcttan agatcctcaa gggccaagta 1980  
cggtgat 1987

<210> 126

<211> 1451

<212> DNA

<213> Homo sapiens

<400> 126

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cgtccgtggg aattaaagct gcaaatggtg tggatttagc aactgagaaa aaacagaaat 180  
ccattctgta tgatgagcga agtgtacaca aagtagaacc aattaccaag catataggtt 240  
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tacttatttg tggttggaat gagggacgac catatttatt tcagtcagat ccatctggag 480  
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aaaaaaaaa a 1451

<210> 127

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 127

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gcccggccag ccatggnatgc caccagcttt atcctcatga ctactttccc gaacaaagag 900
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accnaaaggg gggcccgggc ccaatncccc cctt                                     1234

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<210> 128

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 128

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cgtggtattc agggacatct cgcccgtcct gaaggacccc gcctccttcc gcgccgccat 180
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tctcctgggg ctggaagtgc caaagcctgg ggcaaagctg tgttcagcc acactgaacc 780

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caattacaca cagcgggaga acgcagtaaa cagctttccc acaaaaaaaaaa aaaaaaaaaan 840  
 aaaaaaaaaa aaaaagggcg gcc 863

<210> 129

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 129

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 ccctccctgc ccctgcccta gctgctgtgt gtccagttgc cttctttcta cctcagccgg 180  
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<210> 130

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 130

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 gcagcraagg acccaggggc agagccacgc tggggatgga ccccttcgag gacacgctgc 180  
 ggyggctgcg tgaggccttc aactgakggc gcacgcggcc ggccgagttc cgggctgcgc 240  
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<210> 131

<211> 1786

<212> DNA

<213> Homo sapiens

<400> 131

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aataaagttt taaaaactaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1786
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<210> 132

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (963)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 132

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```

&lt;210&gt; 133

&lt;211&gt; 634

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

```

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gccccgscgy tgcccgtgtg gcgycctcag gttt 634

```

&lt;210&gt; 134

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1818)

&lt;223&gt; n equals a,t,g, or c



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1845)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 134

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&lt;210&gt; 135

&lt;211&gt; 917

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (913)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 135

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ggttttttgc gcgtgcatat ggcggtggcg ggtgggggga agggggagat cctgctgcac 60
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```

tggccgcca agttggggg cgagctcggg ggtgacgcgc ggcctcacg tgaccarag 120
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<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 136

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<210> 137

<211> 2017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 137

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<210> 138

<211> 937

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2746)

<223> n equals a,t,g, or c

&lt;400&gt; 139

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&lt;210&gt; 140

&lt;211&gt; 1241

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<400> 140  
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<210> 141  
<211> 3405  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (1569)  
<223> n equals a,t,g, or c

<400> 141  
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&lt;210&gt; 142

&lt;211&gt; 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2232)

<223> n equals a,t,g, or c

<400> 142

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aacttagtna cattaaagcc tacgaaaact catccnggct gtaggatagt aataaaggaa 2220
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<210> 143

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 143

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<210> 144

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<400> 144

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<210> 145

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 145

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111

aaaaaaaaaa

1030

&lt;210&gt; 146

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

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&lt;210&gt; 147

&lt;211&gt; 2678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

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&lt;210&gt; 148

&lt;211&gt; 1028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

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ctgcctcagc ctcccagta gctgggatta caggcacaca ccaccacgcc cggttaattt 60
tttgtgtctt tttagtagag acgggggttc gctatgttgg ccagactggg cttgaactgc 120
tgacctcgtg atccgccgcg ctccgctct caaagtgtg ggattctgtg tgttttgtgc 180
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agccttttga caacatacag gcattctttt aaaaccaggc tgaaacattt tatttccgag 360
acttaacggt gtgtttcctg tttcttaaac ctagcacctc tgtgtatttg aaaataatga 420
gacatctttc attggatttt ggaaaattgt tcccatggg attctaacct cactaccaa 480
tgagtgaag cttgattaag agttcttcca tatactagcc tccttgaag aagtgatcag 540
aagggtgata gaaggacaga aaggactatt ttaaagttgg actgaaggag aaaaaagcaa 600
aattcttggt tcatcccaat tctagttaga acaaagttaa acccccgtaa tcttaaagag 660
aaaatctttg gaggttttaa ttaaactttt tatacattta aagtcttggt aatggtgctt 720
taagtgtcaa tgtagcatgt aaaaggcttt gtacagacag gtaaaagttc catttctgag 780
tgatgaaatg taacacttct tcatctttaa cttgaaatca aaactatcag attttatttt 840
tgtataattt aaggaaggta aagttagggt actagaagac tctaaattgg cttctacaga 900
tcaataattt aaatgtaact agttgggatt ttatagttaa aattatattt gtgtatataa 960
cataactaat ctgtaaattg taataaatat atttgcaatt attaaatggt aagtgatatt 1020
ttggttca 1028

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&lt;210&gt; 149

&lt;211&gt; 1425

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (647)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1359)  
<223> n equals a,t,g, or c

<400> 149  
gcgtctccgg aagtggaggc gggagcggca cggcagccac tgcttggggg agcgggaggg 60  
cagactcttg gcgccactcc cgggccggtc atgaacgggc cggcggacgg cgaagtggac 120  
tacaaaaaaa aataccggaa tctgaagcgg aagctcaagt tcctcatcta cgagcacgag 180  
tgcttccagg aggagctgag gaaagcgcaa aggaaattac tgaaggtgtc ccgggacaag 240  
agtttcctcc tagaccgact tctgcagtac gagaacgtgg atgaagactc ttcggactca 300  
gatgccactg catcatcaga taacagcgag acggagggga caccacaagt gtctgacaca 360  
ccggccctta agaggaagag aagccctccg ctggggggcg cccctctcc ctccagctc 420  
tcctgcctc cttcaacagg gtttccctt caggcctccg ggtccctc cccatacctg 480  
agctcgttg cctcctcccg ctacccccca ttcccttctg actacctggc cctgcagctg 540  
cccgaacca gtcccctrag gcccaagcgg gagaaacggc cccgmctgcc ccggaaactc 600  
aagatggcgg tgggaccccc cgaytgccct gtgggagggc cgctganctt ccctggccgg 660  
ggttytgggg stggggtcgg gamaaccctg amccccctt caccacctaa gatgcccccc 720  
cccacgatcc tgagcacggt ccctcggcag atgttcagcg atgcaggtag cggggacgat 780  
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atgccacca cggccccgcc cggcgccctc cccgtgccag cacacacgag tccagcttcc 900  
tcggaggtgt ttattgatgc ccagctgcca tgctccggcc actgacacaa ccagaaaagg 960  
cgtaaacatg cacgggtgtc ccccaggagg gtgcaggggc cctgccttca aaccccgggc 1020  
ccctccaggg gacagttatt taaacgagtg gccgggagca tctgccacct gctggggagg 1080  
cagagacct gcaatggcca cctctttaa agggcagctg tacagggcta ggttttttca 1140  
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cattctcctc ctctgaacct cccctaattc gacctcctcc ctgttggggg agagggacgg 1260  
ggcagcgttg agaggcagga gtgaggagcg cgggggcctg gggccgggct ctgagcactg 1320  
cccgggtgtg cagatgatgg ggggtttgca tatttgcan ggactagcga gtcaggcagg 1380  
aggtttgcat atgtgaatat agaactccgc agccctcat gagca 1425

<210> 150  
<211> 780  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<400> 150  
gctgcgagaa gacgacagaa ggggagagcc aatggaaagg ggctgccgcg cggccgtaaa 60

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gagttttag agcagttcgg gtgcggtacg ttgcattccg gtaccggacg ccgagagcgg 120
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gcggcaaaagt gcgagcaaaag gccaaatccc gctcctcccg cgcgggcctg cagttcccgg 240
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gccggtgtac ctggcgggcg tgttgagta ccttacggcg gagatcctgg agctggctgg 360
caacgccgcg cgtgacaaca agaagaccag gataattccc cgccacctgc agctcgccat 420
ccgcaacgac gaggagttaa acaagctgct gggcaaaagt accatcgctc agggcggcgt 480
cctgcccac atccaggccg tgctgctgcc caagaagacg gagagtcaga agacgaagag 540
caaatgaccc tgacgccgcc ctcagggagc tggctccsc agcaaaggcc cttttcatgg 600
tcgtcccga atgcttttga atgtgctgga tgtcatggag ggccggtgac atctagcggg 660
gaggtgggcg gcgaggggtcc cggcgggagc caataaagtt ggtgaaaatc gtaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780

```

<210> 151

<211> 1066

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 151

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ggacccgcca tggcgcgga gaaggtgctg ccgcggctga tcgcggagct ggcccgcgc 60
gtgcgcgccc tgcgggagca actgaacagg ccgcgcgact cccagctcta cgcggtggac 120
tacgagacct tgacgcggcc gttctctgga cgcggctgc cggtcgggc ctgggcccac 180
gtgcgcgcg agagccgcct cttgcagctg ctcggccgcc tcccgctctt cggcctgggc 240
cgctggtca cgcgcaagtc ctggctgtgg cagcacgacg agccgtgcta ctggcgctc 300
acgcgggtgc ggcccgacta caccgcgag aacttgacc acgggaaggc ctggggcatc 360
ctgaccttca aagacgcctc tttttcttca tcagggaaga ctgagagcga aggcgcggga 420
gacgaacac gtcattgtacc atgactggcg gctggtgccc aagcacgagg aggagcctt 480
caccgcgttc acgcggcgcc cgggaagacag cctggcctcc gtgcccgtacc cgcctctcct 540
ccgggccatg attatcgag aacgacagaa aaatggagac acaagcaccg aggagcccat 600
gctgaatgtg cagaggatac gcatggaacc ctgggattac cctgcaaaac aggaagacaa 660
aggaagggcc aagggcaccc ccgtctagaa tgccagaacc agcgggtggc cttaggggct 720
gtgaggcagt ggggacctta ttgatgaaag aaaccgtctt tgcgttacac ccgagctctg 780
ctctcgagc agggagctca cttccgcga cgtgttctga ggtctgcat cttagggggg 840
agggctgggg caaatcgcca cctgtgcctt tcctctggcc ctgctgcccc cacacccaac 900
tccgagggcc cagctgggg aaagcggga gcgctcgctc cttttcccc attagtctc 960
tctctgcctg gatcccgca gaagctatga aagggaataa agagaaaaga artamaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccctt 1066

```

<210> 152

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 152

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accccgctc tccaaggagg tgtgacatca tcatcatctc tggccggaaa gaaaagtgtg 60
aggctgcca ggaagctctg gaggcattgg ttctgtcac cattgaagta gaggtgccct 120
ttgacctca ccgttacgtt attgggcaga aagggaagtgg gatccgcaag atgatggatg 180
agtttgaggt gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca 240
cgggcctcgc tgcaaatttg gaccgggcca aggctggact gctggagcgt gtgaaggagc 300
tacaggccga gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc 360
ccaaatacca tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg 420
agcatgacgt gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa 480
ttaccatcac aggttacgaa aagaacacag aagctgccag ggatgctata ctgagaattg 540
tgggtgaact tgagcagatg gtttctgagg acgtcccgtc ggaccaccgc gttcacgccc 600
gcatcattgg tgcccgcggc aaagccattc gcaaaatcat ggacgaattc aaggtggaca 660
ttcgcttccc acagagcgga gccccagacc ccaactgcgt cactgtgacg gggctcccag 720
agaatgtgga ggaagccatc gaccacatcc tcaatctgga ggaggaatac ctactgtacg 780
tggtggacag tgaggcgtg caggtataca tgaaaccccc agcacacgaa gaggccaagg 840
cacctccag aggttttgtg gtgcgggacg caccctggac cgccagcagc agtgagaagg 900
ctcctgacat gagcagctct gaggaatttc ccagctttgg ggctcagggtg gctcccaaga 960
ccctcccttg gggcccaaaa cgataatgat caaaaagaac agaaccctct ccagcctgct 1020
gacccaaacc caaccacaca atggtttgtc tcaatctgae ccagcggtg gaccctccgt 1080
aaattgttga cgctcttccc ccttcccag gtccgcaggg agcctagcgc ctggctgtgt 1140
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taaaccaagg tcatgagcat tcgtgctaag ataacagact ccagctcctg gtccaccgg 1260
catgtcagtc agcactctg ccttcacac gagagctccg cagccgtggc taggattcca 1320
cttctgtgt catgacctca ggaaataaac gtccttgact ttataaaagc caaacgtttg 1380
ccctcttctt ttcccacct cctcctgcca gtttcccttg gtccagacag tcctgtttgt 1440
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gaagacctgg caatggacag caggaggcag gttcctggag ctnggggggtg acctgagag 1560
cagaggggtga cgggttctna ggcagtcctg attttacctg ccgtgggggtc tgaaarcacc 1620
aagggtccct gacctacct ccaactgcca 1649
```

<210> 153

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 153

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ccggaaattc ccgggtcgac ccacgcgkcc gcggnagwgc tcacacgtgt gctccctgcc 60
ctgctcctgg ccccttgccc ggccgggtg tttctggcca tgggtcgctc ccgccggaca 120
ggcgcgcacc gagcgcactc tctagcccgg cagatgaagg cgaacggcgg cggccggact 180
```

116

tgatgagat tcaccgcgag ctgcggcctc agggatccgc acgaccccag cccgacccaa 240  
acgccgagtt cgaccccagac ctgccagggg gcggtctgca ccgtgtctg gcctgcgcga 300  
ggctacttcat cgattccacc aacctgaaga cccacttccg atccaaagac cacaagaaaa 360  
ggctgaagca gctgagcgtc gagccctaca gtcaggaaga ggcggagagg gcagcgggta 420  
tgggataccta tgtgcccccc aggcggctgg cagtgcacac ggaagtgtcc actgagggtcc 480  
ctgagatgga tacctctacc tgacatggcc tgaagatgca gggcagagga attgcccattg 540  
gacagtgacg caaggactag gctgggaggg agcgtgccaa ccccttttgc ctctgggttt 600  
ggggagcggg gggcctcttc ttggtgccct gccccecaata aaggaactgg acaaagagaa 660

&lt;210&gt; 154

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (449)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (574)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (578)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (583)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (587)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (596)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 154

ggcagagctc caccttccat ccggcgccgg ctttcggcgc gacggtcgcc gcgttccatc 60  
gtcgcgcggc ctttcgggag cccgagcccg caatgtcggg ccccaacgga gacctgggga 120  
tgccgggtgga ggccgggagcg gaaggcgagg aggcagcgtt cggggaagca gaatacgtg 180  
ccatcaactc catgctggac cagatcaact cctgtctgga ccacctggag gagaagaatg 240  
accacctcca cgcccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt 300  
tccagcagca gtcgggggag gccccagtg atgccagccc ctaggctcca agagccccc 360



117

```

accgggaccc aaccctgcct ccctgggcta ggctctggcc tgggcactca mcccctggct 420
tagacamctt ctcaagggtt ggccttcang gacccctggt gggctctgct gcctgggcca 480
accttcctgc ctgggsctyc ccttggttam ctgggscagc cccacccaac tggcatgccc 540
tcctgggggc caaagaatgg ggcctgcaac ccancantt gcntgcncaa cccaanttcc 600
tgggg                                           605

```

&lt;210&gt; 155

&lt;211&gt; 695

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (173)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (499)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 155

```

gaaccctaga aaaaaggatg cagtactaaa gtgtcattca ttcaaagcca ctccctctttt 60
ggtattccac ccattttcca gacggtgaca ctgaggctca ggaagcagta gggacttgca 120
caaagccctt tgggaagcag gctgggaaac agtggaggga ggggtgtccat tanccccaag 180
gagacacagg atctgggctc tktytttsgc ctccctccca gaatacgtg ccatcaactc 240
catgtgggac cagatcaact cctgtytgga ccacctggag gagaagaatg accacctcca 300
cgcccgccct caggagctgc tggagtccaa ccggcagaca cgcctggagt tccagcagca 360
gctcggggag gccccagtg atgccagccc ctaggctcca agagcccca accgggaccc 420
aaccctgcct ccctgggcta ggctctggcc tgggcactca ccccctggct tagacacctt 480
ctcaagggtt ggccttcang gacccctggt gggctctgct gcytgggcca cccttcctgc 540
ctgggrcctc cccttggtcc tactggggcc agcccccacc acctggcatg ccctcctggg 600
gccaaagagt ggcctgcaam ccacccattg setgcccaac caattcctgg gcgytcccca 660
wtytgcccag gcttgaatgt tcacatgaaa tgggt                                           695

```

&lt;210&gt; 156

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 156

```

cggtgggctc gcgttgaggc tgcggtcatt gagggagcag gagctggatc cggtttccgg 60
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120
gggagcgcgc tgcagctcat ggtggagtgt ctgaaggctt tcgttggtga agcagcagtc 180
cgcgcgctgc ggcaggccca ggcagaagac gcgctccgtg tggacgtgga ccagctggag 240
aaggtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300

```

agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggc 360  
aggggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420  
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480  
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540  
atgccacccg gggtcctaca ggcagggtgct gggaaaggcc tggccagcag gtagcctgtg 600  
tgtttgacaa acagcagctg gcagcgctgc ctcctgccca cattcctgcc acccgacatc 660  
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720  
ctataaattt gttctcacia agcaacatca ataatcaaa actgtctcty ccaaaaaaaaa 780

<210> 157

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 157

aacttcagtg ccctcactgt agaatttaaa agccttactg ttgattgccc atggtggact 60  
tgatggagaa attaaatatt ttccattatg ctttacaaaa tactgtatat gtttcagcaa 120  
gtttggggaa tgggagagga caaaaaaaaa ttacatttaa tctatgcatt ttgccaagc 180  
catattgagt tattttacta ctagagacat taggaaacta actgtacaaa agaaccaagt 240  
ttaaaagcat ttgtgtgggt acatcatttc tataattgta taatgtattt ctttgtggtt 300  
ttaaatgata aagacattaa gttaacaaac atataagaaa tgatgcactg gtttgaaatg 360  
taaattattc ttagaacact ttcaatgggg gttgcattgt ccttttagtg ccttaatttg 420  
agataattat ttactgccca tgagtaagta tagaaatttc aaaaaatgta ttttcaaaaa 480  
attatgtgtg tcagtgaagt ttccattgat aattggttta atttaaaata tttagagggt 540  
tgttggactt tcataaattg agtacaatct ttgcatcaaa ctacctgcta caataatgac 600  
tttataaaac tgcaaaaaat gtagaagggt gcaccaacat aaaaaggaaa tatggcaata 660  
catcatgatg gttttccagt taacatagga attaccagat aaatactgtt aaactcttgt 720  
ccagtaacaa gagttgattc atatggacag tatgatttat tgtttatttt ttaacccaaa 780  
tacctctca gtaatttata atggctttgc agtaatgtgt atcagataag aagcactgga 840  
aaaccgatcg tctctaggat gatatgcactg tttcaagtgg tattgaaagc cgcactgatg 900  
gatatgtaat aataaacata tctgttatta atataactaat gactctgtgc tcatttaatg 960  
agaaataaaa gtaatttatg gatgggtatc ttttaatttt actgcaatgt gttttctcat 1020  
ggctgaaatg aatggaaaac atacttyaat tagtctctga ttgtatataa atgtttgtga 1080  
aattccatgg ttagattaaa gtgtrttggg aanaattctc catgggg 1127

<210> 158

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (732)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1279)  
<223> n equals a,t,g, or c

<400> 158  
tgctctacaa atagtaaaaa taaaaaataa aaaaagtagc tgggcgtggt ggtgtgcacc 60  
tgtggtccca gctgcttggg atgctgaggt ggaaggatct cttaaaccga ggaggggtggn 120  
aggctgcagt gaacttgcca ttgcaccact ggcactccag tctgggggac agagtgcagc 180  
cccactctca aaaaagtgtt aattnantat acttgtaggt ggtctatttg catttnaaaa 240  
ctgctttcta gaattaggat agctccctta ggtttaagt tttggtgagc aggaatatca 300  
gttacccttc cagatcttaa ttctagtgtt ttatcactt ttcatgagg tgatctcatc 360  
ctcatctcct agcatgtctg gcaattttga tttctgaact ctgtgctacc tcagaggcca 420  
gcttccttag ggaaaaatca gtgctgaaat aaagttatat ttccttttct gctctaaata 480  
tatagtgggg gaataagaga aatgaagagg aattcctgag aacgtaatta ctagaaactc 540  
ccctctccca cgtaatgtct ctcacacacc atggaccctt attcccccaa tttgcgaccc 600  
cccacccac cccacaacag gtggtgatct ttgtgaagtc tgtgcagcgg tgcattgcct 660  
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aggaggagag gntttaaaga ttttcaacga cgaattcttg tggctaccaa cctatttggc 780  
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gacacctacc tgcacgggt ggccagagca ggccggtttg gcaccaaggg cttggctatc 900  
acatttgtgt ccgatgagaa tgatgccaag atcctcaatg atgtgcagga tcgctttgag 960  
gtcaatatta gtgagctgcc tgatgagata gacatctcct cctacattga acagacacgg 1020  
tagaagactc gccattttg gaatgtgacc gtctgtcctt caggagagga caccaggggtg 1080  
ggggtgaagg agacactact gccccaccc ctgacagccc ccaccccatg gcttccatct 1140  
tttgcatcac caccactcct gaaccccat ttctgatttg tcagaatttt tttttaacaa 1200  
aactaaaaat gaaacacatg tgtctgtggt atctaaaaaa aaaaaaaaaa aaawwggggg 1260  
gsggcccgta ccattgnc ct 1282

<210> 159  
<211> 1505  
<212> DNA

<213> Homo sapiens

<400> 159

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ttacatgttg cagaagctaa ttgaagagac agataggttt gtagtggttca cagaagagga 60
atcaggcatg agtgaccagt tgtgtggcat tgctgcctgc cagacggatg acatatacaa 120
ccgaaactgc cttattgaat tggtaacct gtcagatggt tcttcgtgga gcagagacac 180
aaggctgtgt catttgttca gctgccaaag cccaactgct gcagtgccag caccatccag 240
cctggtatgg tgatacattg aagcaaaaga catcctggac ttgcctcttg gatggcatgc 300
agtactttgc caccactgaa agcagcccca cagagcagga tggccgacag ctctggttag 360
aggtgaagaa tatcgaggag caccggcagc gtagtctgga ctctgtgcag gagctgatgg 420
agagtgggca ggcagtgggc ggcattggtta ccacaaccac agattggaac cagccagctg 480
aggcacagca agcccagcaa gtccagcggg tcatctcgcg ttgcaactgc cgaatgtact 540
atattagtta cagccatgac attgatcctg aactagcaac tcagattaag ccacctgaag 600
ttcttgagaa ccaggaaaag gaagatctcc taaagaagca ggaaggggct gtggatacct 660
tcacccttat ccaccatgag ctggaaatct ccaccaacc agctcagtat gccatgatcc 720
tggaacttgt caacaacctg ctgctccatg tagaacctaa gcggaaggaa catagtgaga 780
agaagcaacg ggtcaggttc cagcttgaga tctctagcaa tccagaggag caacgcagca 840
gcatactgca tttgcaggag gctgtgcggc agcatgtggc ccaaatacga cagctggaga 900
agcagatgta ttctatcatg aagtctttgc aggatgacag caagaatgag aatctgcttg 960
acctgaacca gaagcttcag ttgcagctaa accaggagaa ggccaacctg cagctggaaa 1020
gtgaagaact gaatatcctc atcaggtgtt ttaaggattt ccaactgcag cgggctaaca 1080
agatggagct gcgaaagcac aagaagatgt gagtgtggtc cgtcgactg agttttactt 1140
tgctcaggca cgggtggcgc tgacagagga agatggacag ctgggaattg ctgaattaga 1200
actgcagagg ttctcttaca gcaaggtgaa taagtctgat gacacagcag aacatcttct 1260
ggagttgggc tggtttacc aagaacaacct cctccccaat gctgtctata aggtagtact 1320
gcggccccag agctcctgcc agtctgggag acagctagct ctccgcctct tcagcaaagt 1380
tcggccccct gttgggggta tctctgttaa ggagcatttt gaggtaaatg tgggtgctctc 1440
accatccagc tgacacacca ttctccaca gatgatgggc ttttctttcc tggccgaagt 1500
gtgga
```

1505

<210> 160

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<400> 160

```
aggcacgagg gacacttggg gtctggacgc aacggcggcg ggagcatgaa cggccctcca 60
gccttcgagt cgttcttgct cttcgagggc gagaagatca ccattaacaa ggacaccaag 120
gtacccaatg cctgtttatt caccatcaac aaagaagacc acacactggg aaacatcatt 180
aaatcacgtg cctgcttccc ttctgccttc tgccgtgatt gtcagtttcc tgaggcctcc 240
ccagccacgc ttctgttaca gcctgcagaa ctgtgagtca attaacctc ttttcttcat 300
```

aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360  
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt cctttctatt catctctatt 420  
tcctgggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480  
tgttctgcta gtaaatagtt gaaggttgat cattgatctt ctgcgttttc agtctggcat 540  
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctggtgggt ggcgggggta 600  
gtccaggctt gtcttgcaac tgtatgttct cttcagaccc ctccctggcg atgccagatt 660  
cactgggctg gcagattctg cccccccaa aaaaaaaaaa aaaatattaa taataaanaa 720  
aanagactcc caggga 736

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctgcgcttg cgaasgggnc 60

```

tccggctcgg ctccggggga ctgtgcacga ggttggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtcccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttgg 240
agctggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtgg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgccggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc cttgccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgctctc ttgcatcctg agtggtcgct ggccactggc tggaggttta agaagcgccc 540
aggcatcgag accttggtcc agcagcttgc ccctttatat gaaattgtca tctttacgtc 600
agagactggc atgactgctg ttccactcat tgatagtgtg gacccccatg gcttcatctc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
atgtctgaat cgggacccag ctcgagtagt agttgtggac tgcaagaagg aagccttccg 780
cctgcagccc tataacggcg ttgccctgcg gccctgggac ggcaactctg atgaccgggt 840
cttgttggat ctgtctgcct tctcaagac cattgcactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttgc 960
aaacagcggc aaancgggct tagaagcagg gagga 995

```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```

gccctagtag ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgccgc gctggcgaca gtcggggttg cgagcggccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgacagcggg gggccccctg cctgtcagcg 300
tgacgccccg gtcccagtay gacataccca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggcagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgcccag 480
cccaagcgca gggctctgcat gtgaccagca tctcctggaa ctccactggc tctgtggtgg 540
cctgtgccta cggccggctg gaccatgggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggaccggcga gacctgcgtc cccagcaacc gtcggccgtg gtggagggtc 660
ccagcgctgt cctgtgtctg gccttcacac ccacgcagcc ctcccamgtc gcaggagggc 720
tgtacagtgg tgaggtgttg gtgtgggacc tgagccgtct tgaggacccg ctgctgtggc 780

```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgcccc 840
agcctgggca cagccamcgg ttycagggtgc tkagtgtggc cacygacggg aaggtgctac 900
tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtgggcgc 1020
canggcaggc tttcttccag ttgacctca ggttttcatt ttggcaggaa gcggttnccg 1080
ttcaattttc ctggcattgg agagcagcct taaggggtgc ccatt 1125

```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgaccc acgcgtccga gatggcggtt cgcagcaaga ggccggagca cggcgggccc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acggatgatt 120
gatgtccaga caaaatggc tgggcgagct ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttggatatt ggctgtggtt ctgggctgag tggagattat ctctcgatg 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgcg gccttggacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

accacgcgt ccggcggtg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctcccca ccaccacagc cccccacca tcaagcttca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctct gcgsggcaac gtggtcccaa gccactgcc 180
cactcgccgg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggccccgac atcttcctgc acatctctga tgtggaaggg gagtatgtcc cagtggaaag 360
cgacgaggtc acctataaaa tgtgtcccat cccacccaag aatgagaagc tgcaggccgt 420
ggaggtcgtc atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaagcacc ccttgcctg tgcctgtggg agactttgcg 540
gggaggaggc agcagacact ggagatgaca ttcttcaca cgagacgggg cttcagcccg 600
gcatggtccc tctcaagtat ctcttgagg aaggggtatg gggggcaggt gtggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccatctgaag 720
agcattaaaa gcatttaaaa aggaragggtg cccactggtg gctgagtggg ggttccaacc 780

```

```

ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atgggctcaa 840
cccacagaat cctcttcct cctggagctg gagggcccag attcccagat ctggccccct 900
ggcagcctga cagggacett gcgtgacttc tccaaggcaa atttccacct aagtgccct 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggtcttg ttggttctag 1020
gggagctggc ttgaagtggg kggggaagg cgggggtggc ggtcttttga ttggacggat 1080
gttgcccttt ggtgcctttg cagtgggagg cggcatagct gcctgtcttg ggaagacagt 1140
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agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agccccctga attatggcgg cggggggctg ggggtggtgt ggtgggaagg gcttgtggag 1320
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gcacccctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttcttt aaaactagt ttaagaaatg cttagggtatt tttttttct tatttttcat 1500
aactaaagct ttcaccacga gccggctctg ttgacctt gctgccgaca ttgcaaacct 1560
tttggcaggg tgggagactg agtctcatc tgtcamccag gctggagtgc agtngcccga 1620
tctcagcttt actgcaacct ct 1642

```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

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aggaaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccaccc tgagtgtcag cccagaaatg gctcagtac ctgttttga ccggaggctg 120
accagtgtgt ggctgtgcc catcaagtgg atggcgctg agtccattct ccgccggcg 180
ttcaccaccc agagtgtat gtggagtatt ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gateccagcc cgggaggatc cctgacctgc tggaaaagg 300
ggagcggctg cccagcccc ccatctgcac cattgatgtc tacatgatca tgggtcaaag 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgtktg aattctcccg 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagccag 480
tcccttgac agcaccttct accgctcact gctggaggac gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaag aggaggcccc caggtctcca ctggcaccct 720
ccgaagggct ggctccgatg tattttratg tgacctgga atgggggcag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagttagg accccacagt 840
acccctgccc tctragactg atggctacgt tgccccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcggcccca gcccccttcg ccccgagagg gccctctgcc 960
tgctgcccga cctgctggtg ccactctgga aaggscagg actctctccc cagggaagaa 1020
tggggtcgtc aaagagtttt tgcttttggg ggtgcgtgga agaaccgccg gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115

```



<210> 166  
<211> 1066  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (739)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (968)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1023)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1025)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1042)  
<223> n equals a,t,g, or c

<400> 166  
gggcacgagn cacctgagcc ccttgtctcg caccggtcc caggagggca cctccatgga 60  
gggctccgc cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtggcta 120  
ctccaggcat tgacaagctg accgagaagt cccaggtgtc agaggatggc accttgcggt 180  
ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240  
gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300  
caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgagc 360  
tgctgcaggt gctggttccg cagtggagaa gatctgcatc gacaagggcc tgacggatga 420  
gtctgagatc ctgcggttcc tgcagcatgg caccctggtg gggctgctgc ccgtgcccc 480  
ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540  
catgtggggc gtcattatc tgaggaatgt ggacccccct gtctggtacg acaccgacgt 600  
gaagctgttt gagatacagc ggggtgtgag atgaagccga cgaggggctc agtctagggg 660  
aaggcagggc cttggtccct gaggttccc ccatccacca ttctgagctt taaattacca 720  
cgatcagggc ctggaacang cagagtggcc ctgagtgtca tgccctagag acccctgtgg 780  
ccaggacaat gtgaactggc tcagatcccc ctcaaccctc aggctggact cacaggagcc 840

```

ccatctctg ggctatgcc caccagagac cactgcccc aacactcgga ctccctcttt 900
aagacctggg ytcagtgtg gcccctcagt gccaccact cctgtgctac ccagccccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaagggg gggttttgaa ccaaggggga 1020
aancnacggg gcctggttcc cntttggaaa ggtttcccct gggaaa 1066

```

<210> 167

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 167

```

gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggtcgcag gatggatccc gtaccggga cagaetcggc gccgctggct 120
ggcctggcct ggtcgtcggc ctctgcaccc ccgcccggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccganga gaacgtggtg gccgatatcc 300
agatcggtgt ggacaagagc cccctgccgc tgggcttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkgar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggtttg ccatctggtg caagaaaggc caagggcccg 540
aggccagttg ccaaagccc cgangtcctc agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttg aagccggaca agcgttc 657

```

<210> 168

<211> 1026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 168

```
ggcacgagga gagatggagg ggcggcaggt gctggagggtc aagatgcagg tggagtacat 60
gtcattcagc gcacacgcgg acgccaaggg catcatgcag ctggtggggc aggcagagcc 120
gkagagcgtg ctgctggtgc atggcgaggc caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgtgcc 240
cacaagcccc agcatccccg taggcatctc gctggggctg ctgaagcggg agatggcgca 300
ggggtgctc cctgaggcca agaagcctcg gtcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctggtgt cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgcgc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgcgcgtc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggacct 600
aggcaccaag gtgctgctgg tctcctggac ctaccaggac gaggagctgg ggagcttctt 660
cacatctctg ctgaagaagg gctcccccga ggccccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcaggtcc catccctggg gacagaggcc ttgtgtcacc 840
tgccctgccc ggcagctgtt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggcctttag nggggggttt 1020
aaatta                                           1026
```

<210> 169

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 169

```
ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggctttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180
```

acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgcattgttt 240  
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300  
tgggccatgg aggacaagca ggagatggtg gacatcatcg agacggtgta ccgcggggcc 360  
cgcaaaargcc gcggcctggt ggtgtccccc aaggactact ccaccaagta ccgctactga 420  
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480  
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540  
attgataaca tggctttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600  
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660  
tcttaccctt ggagtaaaac gaagggtgtt atcctgtgag cctgtgcgtt ttgcatactg 720  
ggttggtttn ctngggcttc ggtgacagca tatnccgcga gctgggcttt aaca 774

<210> 170

<211> 402

<212> DNA

<213> Homo sapiens

<400> 170

ggcacgagcg gcggtggggc ggacagccgg ggtgcgcact tggggccccc tggccatggc 60  
ggcgaagggtg gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaagg 120  
cctgagtgc aagcagcggg aggaacatta cttctgcaag gactttgtca ggctgaagaa 180  
gatcccgaca tgggaaggaga tggcgaaaag ggtggctgtg aagggtggagg agcccaggta 240  
taaaaaggac aagcagctca atgagaaaat ctccctgctc cgcagcgaca tcaccaagct 300  
ggaggtggac gccatcgtca acgcccgcga cagctccccg ccccgaggga gcctaattaa 360  
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<210> 171

<211> 796

<212> DNA

<213> Homo sapiens

<400> 171

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aagaagggtc tctccatcgc caaggagggc gtggtgggtg cgggtggaaa gaccaagcag 180  
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gccgtgagcg aggtgtggt gagcagcgtc aacactgtgg ccaccaagac cgtggaggag 360  
gcggagaaca tcgcggtcac ctccggggtg gtgcgcaagg aggacttgag gccatctgcc 420  
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gggggagact agagggttac aggccagcgt ggatgacctg aagagcgtc ctctgccttg 540  
gacaccatcc cctcctagca caaggagtgc ccgccttgag tgacatgcgg ctgcccacgc 600  
tctgcctc gtctccctgg ccacccttg cctgtccacc tgtgtgctg caccaacctc 660  
actgcctcc ctgcgcccac ccaccctct ggtccttctg accccactta tgcgtgctgtg 720  
aattttttt ttaaatgatt ccaaataaaa cttgagccca ctyctaataa aaaaaaaaaa 780  
aaaaaaaaag ggccc 796

<210> 172

<211> 478

<212> DNA

<213> Homo sapiens

&lt;400&gt; 172

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ggcatccaaa gagaaagagg aagtggcaga ggaggcccag agtgggggag actagagggc 180
tacaggccag cgtggatgac ctgaagagcg ctctcttgcc ttggacacca tcccctccta 240
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ccaccacccc tctggtcctt ctgacccac ttatgtgct gtgaatttt tttttaaatg 420
attccaaata aaacttgagc ccactcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 478
```

&lt;210&gt; 173

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (59)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 173

```
tttcccaatg cctgccacca cggagactca gggccacctg ccaccctccc tcgtgcent 60
ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cgggtgttac aaggaggtga 120
tcatttacia cctctgccag aagcagggtg tggagaagat accactgccc ttttttgcca 180
tgtccctgag cctgtccccc gggacccacc tcctggctgt tggctttgct gagtgcacgc 240
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acgcctgggt atgccaggca cctggacaca ggcttgccag aggcgccagg ttgtcaatgg 480
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ggcgccctgt gaatactttc atacctgttg ccccttttgc taagaaatct ttaatgtttc 600
tatcttgtaa taaacatggg cattttattgc aaaaaaaaaa aaaaaaaaaa aaaaaa 656
```

&lt;210&gt; 174

&lt;211&gt; 1891

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

```
gagccccctc cgagagggga gaccagcggg ccatgacaag ctccaggctt tggttttcgc 60
tgctgctggc ggcagcgttc gcaggacggg cgacggccct ctggccctgg cctcagaact 120
tccaaacctc cgaccagcgc tacgtccttt acccgaacaa ctttcaattc cagtacgatg 180
tcagctcggc cgcgcascgg gctgctcagt cctcgacgag gccttccagc gctatcgtga 240
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ggatgtcatg gcgtacaata aattgaacgt gttccactgg catctggtag atgatccttc 660
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```

```

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aaaaaaaaa aaaaaaaaaa aaaaaaaag g                                     1891

```

<210> 175

<211> 2161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 175

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aatttaaaaa taaagtatcg actgaatatt cttcgaaaga gtcttcaggc agaaaggaac 240
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attaaggctg catatccaga tttggaaaat cctcctctgc tagtgacacc aagtcagcag 360
gccaagtttg gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
aaggaacaga aagttaatcc aagagaaatt gctgaaaaca ttaccaaaaca cctcccagac 480
aatgaatgta ttgaaaaagt tgaaattgct ggtcctggtt ttattaatgt ccacttaaga 540
aaggattttg tatcagaaca attgaccagt cttctagtga atggagttca actacctgct 600
ctgggagaga ataaaaagg ttagttgac ttttctccc ctaatatagc taaagagatg 660
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gcagggtatg acgtgctcag gttaaactcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

```

```

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caagcataag taaagaaaat ttgtcaacca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2160
a 2161

```

&lt;210&gt; 176

&lt;211&gt; 2411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

```

gggatcctgg ctaccactct gaatccgata ccgcttctct tagaccgtca ctgagacaac 60
ggttaccgtg acaaccgagc ccgagaaccg gaggccttacc atcaaacttc ggaaacggaa 120
gccagagaaa aaggtagaat ggacaagtga cactgtggac aatgaacaca tggggccgag 180
ctcatcmaaa tgctgctgta tttatgagaa acctcgggcc tttggcgaga gctccacgga 240
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```

<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

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gcagaatggc cttgcttgag gtttttgcaa atctctcggg tgctctggctt agtgggaggc 180
agctgggccc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240

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```

gagtgaagg gaaggcctg gggaccctca gaggttctcg gaccacactt tgagaactcc 300
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ctttgtggag aaccgctggt gtctgaagcg ggtgtcagcc ccactgcacc ttggtcttct 420
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caacanattt gaagcccg                                     1338

```

<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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tgtactactg gtacctggtc accgagggcc agatcttcat cctcttcate ttacaccttc 180
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gggaaggggac ccacaggaag tcacagtggg gccaggggat gtgtcagccc ccagccacgg 1500
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa      1614

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<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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caaacagacc aatctgagca agtgctttgg ttttgtttagc tacgacaatc cagtctctgc 180
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aacagtcaaa cttatttttg taatgtatgt tattgtgtga tgcagttttt tgcttctgtc 4200
tccaatatta aaccattttc ctaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 4260
aaaaaaaaaa aaaaaaaaaa aaaaaanaa aa 4292

```

&lt;210&gt; 180

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<400> 180  
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cagctcctcr cgccatcacc atcgccgccg ccggttccac ctrccccaac agcccctgct 120  
ccagagggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180  
ggagcagaca ctgctgaagc ccaagtgaga aaccacggcg ctttggcgtg taacntggaa 240  
tat 243

<210> 181  
<211> 813  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (266)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (723)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (726)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (738)  
<223> n equals a,t,g, or c

<400> 181  
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tggccaagga caactgggtg ctgtcctcgg agatcagtca ggtccgcctg tacactctgg 120  
aggatgacaa gtctctctcc ttccacatgg agatgggtgt gcatgtggat gcagmccagg 180  
ccttcctgct gctctcggac ctgmgtcaga ggccagagtg ggacaagcac taccggagcg 240  
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acgccagagt acagacgcgg agagaccctc tgctcaggct tctgcctctg gcgcgagggg 480  
gaccagctga ccaaggtagc ctgtagttaga ctcggtcct gtccacagcc ctagctgcca 540  
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tggccccggg ggaggatgcc agcagcctgc ctatggytgc cagctgtgct gtgagccag 660  
cagcatggcc tgcactctgg aagggacaca ggttgctccag agcccctggc acaactgtct 720  
agncanatgc tgtggagnca gctgttaccc tgtaagccac tggcccagca cctgcctaca 780

gggccagcct ggtggccaca gtgcacgtgg ggg

813

&lt;210&gt; 182

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (49)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (370)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (567)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 182

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gggtttacat gaccgcagtc gccctcagtt tcaccnngta ggaatcggnc tggggatgca 60
ccgtgctact ctcttcctcc aggcgggtcc ccggcgcggtg cgcgcgatcc atgtccatgt 120
ccgcgcctat caataaagtt gctcacttgt tgccggccccg ctagmccgaa aggttgcgcg 180
cgcagmccga gaagtctcgc gatagccagc cgcggctgcc cttgcgcttc ccgagctggc 240
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ttgaaggagt ggctaagggt ggacaataca cgttcactgc agctgctgtc ggggcccgtgt 480
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aaaaaaaaat yggggggggg ccscakacca attkccctta ag 822
```

&lt;210&gt; 183

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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cctcacctgtg tccgcgctct tttcgcggat cttcgggaag aagcagatgc ggattctcat 180
ggttggcttg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtcaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
ccagaacact cagggcctca tctttgtggg ggacagtaat gaccgggagc gggccaaga 420
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gctggggcta cagcacttac gcagccgcac gtggtatgtc caggccacct gtgccaccca 600
aggcacaggt ctgtacgatg gtctggactg gctgtccac gagctgtcaa agcgctaacc 660
agccaggggc aggccctga tgccggaag ctctgcgtg catccccggg atgaccagac 720
tcccggactc ctacggcagt gccctttcct cccacttttc ctccccata gccacaggcc 780
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tgtactctag gggccaggtt gggaggggga aggtgagggc ttcgggtggt gctataatgt 1020
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gnngggggcc ccgna 1095
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<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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ccctgcagac cctgcacctg cggagaccca gcgcaccag agcaacctgc ccaccagcct 180
ggaggggtctg agcaacctcg cagacgtgga tctgtcctgc aatgacctga cagggtgccc 240
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140

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gatctagaac tagtc 3675
```

&lt;210&gt; 185

&lt;211&gt; 1040

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

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```

&lt;210&gt; 186

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;



141

&lt;221&gt; misc feature

&lt;222&gt; (76)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 186

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ancagctata gatcatgaca ggcaanggta nactgacagt acggtcggat tccccgggcs 60
acccacgcgt ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180
catgggggag aagccagtgg ggagcctggc tgggattggg gaagtcctgg gcaagaagct 240
ggaggaaagg ggttttgaca aggcctatgt tgtccttggc cagtttcttg tgctaaagaa 300
agatgaagac ctcttccggg aatggctgaa agacacttgt ggccccaacg ccaagcagtc 360
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cctctacgaa ggaaaagatt gctattgtcg tactcacctc cgacgtactc cggggtcttt 540
tgggagtttt ctcccctaac catttcaact tttttttgga ttctcgctct tgcatgcctc 600
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cccgcccca tccctcacc ccaccctcac tttcaatccg tttgatacca tttggctcct 720
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tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817
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&lt;210&gt; 187

&lt;211&gt; 1080

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

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ctgccctgct gctggaacac cgagccagcc tgagcgctaa ggaccaagac ggctggggagc 60
gctgcacgcc gcggtactg gggccaggtg cctggtggag ctgctcgtgg cgcacggggc 120
cgacctgaac gaaaagtccc tgatggacga gacgccctt gatgtgtgcg gggacgagga 180
ggtgcggggc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgccagag 240
ccgccagcgc tccttgctgc gccgccgcac ctccagcgcc ggcagccgcr ggaagggtgg 300
gaggcggggtg agcctaacc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360
catcgtgtgg caacagccgc cgcccaccag cccggagccg cccgaggaca acgatgaccg 420
ccagacaggc gcagagctca ggccgcccgc cccggargag gacaacccc aagtgggtcag 480
gccgcacaat gccgagtag ggggctcccc agtgcggcat ctatactcca agcgactaga 540
ccggagtgtc tcctaccagc tgagccccct ggacagcacc acccccaca ccctggtcca 600
cgacaaggcc caccacaccc tggctgacct gaagcgccag cgagctgctg ccaagctgca 660
gcgaccccca cctgaggggc ccgagagccc tgagacagct gagcctggcc tgcctggtga 720
cacggtgacc cccagcctg actgtggctt cagggcaggc ggggaccac ccctgctcaa 780
gctcacagcc ccggcggtgg aggtccccgt ggagaggagg ccgtgctgcc tgctcatgtg 840
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ggtgcgtgcc ctggtgctgc ggggtgcagca cggaaacccc ggcttctact gtacaggaca 960
ctggcccctc tcaggtcaga agacatgcct ggagggatgt ctggctgcaa agactatatt 1020
tatctgcaa ctcttgataa agggctgttt tgccatggaa aaaaaaaaaa aaaaaaaaaa 1080
```

&lt;210&gt; 188

&lt;211&gt; 1286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
<222> (1245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1254)  
<223> n equals a,t,g, or c

<400> 188  
gcattgattct tgttttgtag agatgcaggc tcaaaaagta atgcatgttt cttcagcaga 60  
actgaattat tcaactgccat atgactctaa acaccaaata cgtaatgcct ctaatgtaaa 120  
gcaccatgac tctagtgtc ttggtgtata ttcttacata ctttttagtg aaaatcctta 180  
tttttcatca tggcctccaa gtggtaccag ttctaagatg tctcttgatt tacctgagaa 240  
gcaagatgga actgtttttc cttcttctct gktgccaaca tcctctacat ccctcttctc 300  
ttattacaat tcacatgatt ctttatcact gaattctcca accaatattt cctcactatt 360  
gaaccaggag tcagctgtac tagcaactgc tccaaggata gatgatgaaa tccccctcc 420  
acttctctgta cggacacctg aatcatttat tgtggttgag gaagctggag aattctcacc 480  
aaatgttccc aaatccttat cctcagctgt gaaggtaaaa attggaacat cactggaatg 540  
gggtggaaca tctgaaccaa agaaatttga tgactctgtg atacttagac caagcaagag 600  
tgtaaaactc cgaagtccta aatcagaact acatcaagat cgttcttctc cccacacctc 660  
tctcccagaa agaactctag agtcttctt tcttgccgat gaagattgta tgcaggccca 720  
atctatagaa acatattcta ctagctatcc tgacaccatg gaaaattcaa catcttcaaa 780  
acagacactg aagactcctg gaaaaagtgt cacaaggagt aagagtttga aaattttgcg 840  
aaacatgaaa aagartatct gtaattcttg cccaccaaac aagcctgcag aatctgttca 900  
gtcaataaac tccagctcat ttctgaattt tggttttgca aaccgttttt caaaacccaa 960  
aggrccaagg aatccaccac caacttgga tatttaataa aactccagat ttataataat 1020  
atgggctgca agtacacctg caaataaaac tactagaata ctgctagtta aaataagtgc 1080  
tctatatgca taatatcaaa tatgaagata tgctaattgt ttaatagctt ttaaaagaaa 1140  
agcaaaatgc caataagtgc cagttttgca ttttcatac atttgcatg agttgaaaac 1200  
tgcaataaa agtttgctac ttgagcttat gtacagaatg ctatntgggg aacnctttta 1260  
ggatgggttt tatttttcca tttttg 1286

<210> 189  
<211> 1738  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1480)  
<223> n equals a,t,g, or c

<400> 189  
gcggcgccct cggagccaaa ggcgcgcggc ggacacggcg gggccctcgc gcgcctggag 60  
acgatgccaa agctgcaggg cttcgagttc tggagccgca ccctgcgagg ggcccgccac 120  
gtcgtggccc ccatggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180  
ggggcacagc tctgctacac gcccatgctg catgccagg tctttgtccg cracgccaac 240  
taccggaagg agaacctgta ctgcgagggt tgccccgagg accggcccct catcgtgcag 300  
ttctgtgcca atgaccgga ggtgtttgtt caggcggtc tcctggctca ggattactgt 360  
gacgccattg acctgaactt gggctgcccc cagatgatag ccaagagagg tcactatggc 420

```

gcctttctgc aggcagagt ggacctgtc caaagaatga ttttgctggc ccacgagaaa 480
ctctctgttc ctgtcacgtg caaaatccgt gtcttcccgg agattgacaa gaccgtgagt 540
acgcccagat gctggagaag gccggctgcc agttgtgtac ggtgcacgga cgcaccaagg 600
agcagaaggg gccctgtctg ggtgcagcgt cctgggagca tatcaaggct gtgcggaagg 660
ctgtggccat ccctgtgttt gctaaccgga acatccagt cctgcaggac gtggagcgt 720
gcctccggga cacgggtgtg cagggcgtca tgagcgaga gggcaacctg cacaacccc 780
ccctgttcga gggccggagc cctgccgtgt gggagctggc cgaggagtat ctggacatcg 840
tgcgggagca cccctgcccc ctgtcctacg tccgggcca cctcttcaag ctgtggcacc 900
acacgctgca ggtgcaccag gagctgcgag aggagctggc caaggtgaag accctggagg 960
gcacgctgctg tgtgagccag gagctgaagc tgcggtgtca ggaggagata tccaggcagg 1020
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cggggcccgagg gggggggagc aaggagaagg caggtgcgcg cascaagcgg gccctggagg 1140
aaggaggagg tggcacggag gtcctgtcca agaacaagca aaagaagcag ctgaggaaacc 1200
cccacaagac cttcgacccc tctctgaagc caaaatatgc aaagtgtgac cagtgtggaa 1260
acccaaaggg caacagatgt gtgttcagcc tgtgccgcgg ctgctgcaag aagcgagcct 1320
ccaaagagac tgcagactgc ccaggtcacg gattgctttt taaaaccaa ttggagaagt 1380
ctctggcctg gaaagaggcc cagcctgagc tgcaggagcc tcagccagca gcacctggaa 1440
caccaggtgg cttctccgaa gtcattggca gtgccctggn ctgaaggccc acaaccccca 1500
ccccaggac tgcgtctgga gcctggacac gtcctactta agaaaatgcc ttttactcag 1560
ggaatctcct gctacttaat gtgaaaagac acgcccattgt ccccttcgc ccactctggg 1620
ggcctggaaa tgcctgcagt gggagcaggc cccaggctgg acctgccctg tcctcagcac 1680
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaa aaaaaaaa 1738

```

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

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agcacatcaa atgccccac tccaagtagc ggtgcacgtt catcggaac caggacactt 60
acgagaccca cctggagact tgccgcttcg agggcctgaa ggagtttctg cagcagacgg 120
atgaccgctt ccacgagatg cacgtggctc tggcccagaa ggaccaggag atgccttcc 180
tgcgtcccat gctgggaaag ctctcggaga agatcgacca gctagagaag agcctggagc 240
tcaagtttga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagtcc 300
ggcgggacgc atccatgtta aatgacgagc tgtcccacat caacgcgcgg ctgaacatgg 360
gcaccttagg ctctacgac cctcagaga tcttcaagt caaagggacc tttgtgggcc 420

```

```
accagggccc tgtgtggtgt ctctgcgtct actccatggg tgacctgctc ttcagtggct 480
cctctgacaa gaccatcaag gtgtgggaca catgtaccac ctacaagtgt cagaagacac 540
tgaggggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gctctgcaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggcca tgacaacccg gtgtgcacgc tggctcctc acacaacgtg ctcttcagcg 720
gctccctgaa ggccatcaag gtctgggaca tcgtgggcac tgagctgaag ttgaagaagg 780
agctcacagg cctcaaccac tgggtgcggg ccctgggtgc tgcccagagc tacctgtaca 840
gcggctccta ccagacaatc aagatctggg acatccgaac ccttgactgc atccacgtcc 900
tgcagacgtc tgggtggcagc gtctactcca ttgctgtgac aaatcaccac attgtctgtg 960
gcacctacga gaacctcatc cacgtgtggg acattgagtc caaggagcag gtgcggaccc 1020
tcacgggcca cgtgggcacc gtgtatgccc tggcggtcac ctgcagcca gaccagacca 1080
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gcacgcagac cctgctgcgt caccagggca gtgtcaccgc gctggctgtg tcccggggccc 1200
gactcttctc aggggctgtg gatagcactg tgaaggtttg gacttgctaa caggatccag 1260
gccaggctgt ggtttccctc gaaccagccc tggaccttc tgagccaggc tggccacatg 1320
gggtggtctc ggggtttctg cctgccccgt gggcataggt ggacaggctc tggcagccgg 1380
gcagtgcctc ccccgccccg tgctcggcga gcctccctc actcggcact gtccttgcgt 1440
cccagccctc ctctgggtgc caggtacgac gcttgccccg gcccaccctc catccccacc 1500
ctccatcccc accctagatg gagcgagggc ctttttactc accttttcta ccgtttttag 1560
actgtatgta gatttggtta cctcctggtt gaaataaatg ctccacagac tgtggctgtg 1620
agtggggaca gctcctcggg acaagggggc tgtgtgtggc cttgaggttg gtgtgcacag 1680
gcactggctg ctgtgagtgg gggggcatgg ggcagtttcc tttggtggac cccaggaytt 1740
cggsgccamc cgggggctcc cctccctgct aggaggcaca ccctcagagg agctgcaagc 1800
ccgtggctgc ctgtacatg ccctgcttnc acgtggctgc acgtgacac acccacattc 1860
accaaaccga cccgngccct gggacgcaac cagccagga ggaggacacn ggccgccgag 1920
agc 1923
```

```
<210> 191
<211> 250
<212> DNA
<213> Homo sapiens
```

```
<400> 191
ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat cattaatttt cagaacttaa 120
tcagtgtctt tacatttgtt ttttctttta tgctagtggg aaatggagga tgaarataca 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250
```

```
<210> 192
<211> 1902
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
```

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1901)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 192

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ngggacgntg gtagaccanc gcgtaccgct gagtcaratt ttggcatcaa cttgaagggc 60
ccaaaaatca aaggaggtgc ggatgtttca gggggtgtca gtgcccara catcagcctt 120
ggtgaagggc atttragtgt taaaggttcc gggggtgagt ggaagggacc ccaagtcctc 180
tctgctctca acttgacac atctaagttt gctgggggcc ttcatctctc aggaccaaag 240
gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctctgggct gagtgtgtct 300
gggcctcaag gtcacttga aagtggatct ggaaaagtaa cattccctaa aatgaagatc 360
cccaaattta ccttctctgg ccgtgagctg gttggcagag aaatgggggt ggatgttcac 420
ttccctaaag cagaggccag catccaagct ggtgctggag acggcgagt ggaagagtct 480
gaagtcaaac tgaaaaagtc caagatcaaa atgcccaggt ttaatttttc caaacctaaa 540
gggaaaggtg gtgtcactgg ctcaccagaa gcatcaattt ctgggtccaa aggtgacctg 600
aaaagttcaa aggccagcct gggctctctg gaaggagagg cagaggccga agcctcttca 660
ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaatcatt 720
cagtgatgaa agagagttct ctggaccttc caccgagc ggnacgctg agtttgagg 780
tggggaagtg tctctggaag gtgggaaagt taaagggaac cacgggaagc tgaaattcgg 840
tacctttggt ggattgggtg caaagagcaa aggtcattat gaggtgactg ggagcgatga 900
tgagacaggc aagttacagg ggagtggggt gtccctggcc tctaagaagt cccgactgtc 960
ctcctcttct agcaatgaca gtgggaataa ggttgcatc cagcttcccg aggtggagct 1020
```

```

gtcagtttcc acaaagaaag agtagcaggc ctttgtagtg gtgtacatat atatatatat 1080
aacaaaacat cagccttggg tgggtgtgtc ctatataaac tccaaaggga aacacaccga 1140
ctgcctcagc aatcatgcaa agaccttgcc tggcccgggtg gcaagcgctg aaaaaccgac 1200
cgcctgtagg ctccctggaac tatacagata ggtaaagagt tccaagttcg tccagcccat 1260
gtgcaaagtc aacagtattt gccttaagat ttcatatata tatatttttt tgcattgact 1320
gctgagagct cctgtttact aagcaagctt ttgtgtttat tatectcatt ttactgaac 1380
attgttagtt ttggggtaat ggaaaccac tttttcattg taatgacttt gggggctttt 1440
gttagtaagg gtgggtgggg tgatgggttg cagacggagg tcaggtcttc ctctttcctg 1500
agactggatc tgttcaaaca gcaaacgccc acagatggcc cagaggtggt ggtagtcagg 1560
gtgtgtgggt gtttttaggg ttcttttagtg ttgtttcttt caccagggg tggtggtccc 1620
agccagtttg gtgctgacgg tgagaggaaa ttagaatctg tttgcaaatt gtccaacca 1680
ccccctcaac atgaggggct tccattttct gtgttttgta agggaaactgt ttccttcatg 1740
ccgccatggt cctgatatta gttctgattt ctttttaaca aatgttatca tgattaagaa 1800
aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaaataaag ckgttattaa cctgaaaaaa aaaaaanan nn 1902

```

<210> 193

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 193

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ttttgcttaa agctatttan gtgacactat agaaggtacg cctgcaggta ccggtccgga 60
attcccgggt cgaccacgc gtccgggggt gcagacggag gtcaggctct cctctttcct 120
gagactggat ctgttcaaac agcaaacgcc cacagatggc ccagaggtgg tggtagtcag 180
gggtgtgtggg tgtttttagg gttctttagt gttgtttctt tcacccaggg gtggtggtcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaat tgtccaaccc 300
accccctcaa catgaggggc ttccattttc tgtgttttgt aagggaaactg tttccttcat 360
gccgccatgt tcctgatatt agttctgatt tctttttaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaattaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaaataaa gctgtttatt aaccttga aa aaaaaaaa aaagggngg cccgncccat 540

```

tgccctaggg ggggttaant

560

&lt;210&gt; 194

&lt;211&gt; 590

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (589)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (590)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 194

```
ctgcagggtac cggctccgga ttccgggtcg cccacgcgtc aggcggcggc gatgaccttc 60
tgccgggtgc tgaaccggtg tggcgaggcg gcgcggagcc tgcccctggg cgccaggtgt 120
ttcggggtgc ggggtctgcc gaccggggag aaggtcacgc acactggcca ggtttatgat 180
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagagggtgaa tgaaaacttt 240
gccattgatt tgatagcaga gcagcccgtg agcgagggtg agactcgggt gatagcgtgc 300
gatggcggcg ggggagctct tggccacca aaagtgtata taaacttgga caaagaaaca 360
aaaaccggca catgcggtta ctgtgggctc cagttcagac agcaccacca ctagagcgtg 420
tggcacgccg ggggtcccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480
aagctcgctg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590
```

&lt;210&gt; 195

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (579)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (618)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

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attggcatcn tctgaaagcg ttttagacag gcagaatctc tggctctccc tctctgcatt 60
ccccaccag tgaatgaatg agaatctgca tttcttgaga tcataagaat actgacatac 120
agatgagata aaactcatgt gaatatcagt tttaaggctg gtgggttcatt tgttttggtc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgat taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatatc tacagataat aacaacaact ggtatagtat 360
attttattta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttgggtctcg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tctactgna aaataactgc atttcttgga 600
ctttaccttc ccaactctntt cctttaaaca ggattcttna aaccggaaat tgggtanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
```

<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

```
gnataatgct ggccattttg cctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttccttcc cmcaataaga ccatttaagt gtgtgytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaagggtgc ttgctcttac tstttcaa 180
```



```
ttttgcaact ctartgtctc actttttaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggcttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagattt aaagcatcaa atgcctgtga aacagcaaag atgggtgaa 360
attgtgctca ttatgtttgt ggagtgtgta ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaagc agaaggcggc tgattgttg taagtcaagt 480
cagttgcata agcagtgtg tcagaattgg tttggtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaaagtaat tgaccaaatg gaaaagggga agtaattaag gaaattggt 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc tttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagtg tctgtcagta agtgaaacat 840
tttttggtgg tggtttatcc acaaacagtt tagttgtaga ataaaactta tgagtacat 900
ctggaagta accatgctaa gatggcaagc aactggaaa caattaggcc acttggctt 960
cttttgctgt attgttttat aagcctactt tacctcccag tcttggaac aagttttagt 1020
tttttattgg ttggagact agagccaata gtataatgtt ctcaaaggaa acagacttga 1080
gttgttggt tagaggaact aacccaactt atatgatttt tttttgttt ttgtcgtgta 1140
gttatggcac tgtcttattt ggaacatttg caactaggga taatacaaca tttttaactc 1200
tcatttgaca acctactact aatcacagac cacaagggtg atgaccaa atgtgtggt 1260
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tcttgattct tctgggttta tactggttgt aaaacagaat gatacagaaa atgttttcct 1560
tgtttaactg gtatgtgaac atagaacttg ggtattatag atcacttttc actttttgga 1620
atgttttgta ttgaaactta ataaaacttt aacatggcaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaagana aaaaaaaag ggggggccnc cc 1772
```

<210> 197

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<400> 197

```
accacgcgt ccggacttcc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgctca agaaccagct ggaccaggaa 120
gtggagtctt tgccacgctc cattgtctag ctcaaagtgg tacagaccaaa gtatgtggaa 180
gccaaggact gtctgaacgt gctgaacaag agcaacgagg ggaaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaagagg 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420
```

```

gccatgaaac aggccgtcat ggaaatgatg agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttgggc gtggcttcct ggtgatggga agggctctgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccnngg 660
gggggcccgg naccc 675

```

```

<210> 198
<211> 557
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (464)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

```

```

<400> 198
tttagtgac acgtatagaa ggtcgctgc aggtaccggw ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gccccgccc tcgtgaagaa gcaggaggcc aagaaggtag tcaacccgct gttcgagaag 180
cggccaaga acttcggcat cggtcaggac atccagccca agcgggacct gacgcgcttc 240
gtcaagtggc cgcgctacat ccggtgcag cggcacgcgc gatcctctac aagcggctga 300
aggtgcccgc cgccatcaac cagttcacgc aggcgctgga ccgccagacg gccacgcagc 360
ttgcttgaag ctggcgacac attaccggcc cgagacgaag caggagaaga agcagcggtt 420
gttgccccgg gcggagaaga aarcggccgg ncaaggggga nttncggaac aagcggsgcc 480
cgttggtntc gnaancgggg ttgaaaacgg ttcaacaagt tggttgaga acaagaaggc 540

```

gccattgggtt cggttatt

557

&lt;210&gt; 199

&lt;211&gt; 2611

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2549)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2560)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2585)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 199

tcnccgggtcg acccacgcgt ccggcgagga gtaccttacc aacttgcccc acatggacat 60  
cgacaaggac tggaggcccc gctgtacctc acccccagag gctgggtccct cttcctccag 120  
cgctactacc aagtgggtcca cgaaggggca gaactcagac acctcgacac tcagggtccag 180  
cgctgtgagg acatcctgca gcagctgcag gccgtgggtac cccagataga catggaagg 240  
gatcgcaaca tctggatcgt gaagccagga gccaaagtcgc gcggacgagg catcatgtgc 300  
atggaccacc tggaggagat gctgaagctg gtgaacggca acccgtgggt gatgaaggac 360  
ggcaagtggg tgggtgcagaa gtatattgag cggccctcc tcatctttgg caccaagttt 420  
gacctcagac agtggttcct ggtaactgac tggaaaccac ttaccgtgtg gttctaccgc 480  
gacagctata tccgcttttc cagcagccc ttctccctga agaacctgga caactcagtg 540  
cacctgtgca acaactccat ccagaagcac ctggagaact catgccatcg gcatccactg 600  
cttccgccag acaacatgtg gtctagccag aggttccagg cccacctgca ggagatgggt 660  
gccccaaatg cttgggtccac catcatcgtg cctggcatga aggatgctgt gatccacgca 720  
cttcagacct cccaggacac cgtgcaatgt cggaaggcca gctttgagct ctatggcgct 780  
gacttcgtgt tcggggagga cttccagccc tggctgattg agatcaacgc cagccccacg 840  
atggaccctt ccacagcagt cactgcccgg ctctgtgctg gcgtgcaagc tgacaccctg 900  
cgctgtgtca ttgaccggak gctggaccgc aactgtgaca caggagcctt tgagctcatc 960  
tataagcagc ctgctgtgga ggtgcctcaa tatgtgggca tccggctcct ggtagagggc 1020  
ttcaccatca agaagcccat ggcgatgtgt catcggcgga tgggggtccg ccagcagtc 1080  
ctctgctgac ccagcgaggc tctggggaag gcaaggactc ggggaccctt acccacaggt 1140  
cagcttctag gaaaggcact ggggcccagga gcctggggca cagtgagaag ccagtctcca 1200  
ctgccaccac ttcagccccc ggaaagggga agaaagccga ggtatcagga agtttaagga 1260  
agttgcccac ggttgccacag ctcagaaggg gcacagctgg gatgcagacc cagcccgctc 1320  
ccacttcccc agcctccaca ccaaggccca gctgccttct ccccatgtac tccgacacca 1380

```

gggccaggtc ctcagacgac agcacagcaa gctgggtgggc actaaggccc tgtcgaccac 1440
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tgatttcaag gtggcaccca gcatcctgaa gccaaagaaag gtgggcctcg acctgtgact 1560
cacacccagt ggacagtgtc gagcacgggg tcagggtgag agggcacagg cagagggcag 1620
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attccccact gcccttgtcc tggatccaac accaaataaa aagaaacaag tgaagtattt 2040
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tytgagaaag gcatkggtct atcccttctt cagcaaagg gcaaggctac taaaaatgaa 2520
catccataag ccacaaccac tggagaaant tttgcactgn ttagtgtagt tggttgaatg 2580
tggnccccg gaaagagatg ttacttggac c 2611

```

<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

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ggcacgagga aacatggagt cctgtaggca aggtcttacc tgaatcagga tgagggagtg 60
gtgggtccag gtggggtgctc tggccgtgcc cctgcttget gcgtacctgc acatcccacc 120
ccctcagctc tcccctgccc ttactcatg gaagtcttca ggcaagtttt tcacttacia 180
gggactgcgt atcttctacc aagactctgt ggggtgtggtt ggaagtccag agatagttgt 240
gcttttacac ggttttccaa catccagcta cgaactggtac aagatttggg aaggcttgac 300
cttgaggttt catcgggtga ttgcccttga tttcttaggc tttggcttca gtgacaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgga 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgtgac 480

```

```

tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggettacca taaagagtct 540
ctgtctgtca aatggaggtg tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggaggtgtgc tgtcacccat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcaccccag tctttgggcc gtatactcgg ccctctgaga gtgagctgtg 720
ggacatgtgg gcagggatcc gcaacaatga cgggaactta gtcattgaca gtctcttaca 780
gtacatcaat cagaggaaga agttcagaag gcgctgggtg ggagctcttg cctctgtaac 840
tatccccatt cattttatct atgggccatt ggatcctgta aatccctatc cagagttttt 900
ggagctgtac aggaaaacgc tgccgcggtc cacagtgtcg attctggatg accacattag 960
ccactatcca cagctagagg atcccatggg cttcttgaat gcataatggt gcttcatcaa 1020
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tgactaaggt tgacataata gtccacctcc cattactttg atatctgata aaatgtatag 1260
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cagagatgta ctgttattag ctgggaagac caattctaac agcaaataac agtctgagac 1860
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tgttgtgtag tcaagtcacc atgctgaatg tacactgatt cctttatgat gactgcttaa 1980
ctccccactg cctgtcccag agaggctttc caatgtagct cagtaattcc tgttacttta 2040
cagacaggaa agttccagaa actttaagaa caaactctga aagacctatg agcaaagtgt 2100
gctgaatact ttttttttaa agccacattt cattgtctta gtcaaagcag gattattaag 2160
tgattattta aaattcggtt ttttaatta gcaacttcaa gtataacaac tttgaaactg 2220
gaataagtgt ttattttcta ttaataaaaa tgaattgtga caaaaaaaaaa aaaagggccn 2280
gncccggtttt aaaagggatc cnaagcttta ccgtac 2316

```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1145)  
<223> n equals a,t,g, or c

<400> 201  
cgcanccac nnggtggang ccgctctaga atatggatcc cccgggactg cagggagtcc 60  
aaggtacagt cgccgcgtgc ggagcttggt actggttact tggcctcatg gcggtccgag 120  
cttcgttcga gaacaactgt gagatcggct gctttgccaa gctcaccaac acctactgtc 180  
tggtagcgat cggaggtcga gagaacttct acagtgtgtt cgagggcgag ctctccgata 240  
ccatccccgt ggtgcacgcg tctatcgccg gctgccgcat catcgggcgc atgtgtgttg 300  
ggaacaggca cgggtctcctg gtaccaaca ataccaccga ccaggagctg caacacattc 360  
gcaacagcct ccagacaca gtgcagatta ggccgggtgga ggagcggctc tcagccttg 420  
gcaatgtcac cacctgcaat gactacgtgg ccttggtcca ccagacttg gacagggaga 480  
cagaagaaat tctggcagat gtgtcaagg tggaggtctt cagacagaca gtggccgacc 540  
aggtgctagt aggaagctac tgtgtcttca gcaatcaggg agggctggtg catcccaaga 600  
cttcaattga agaccaggat gagctgtcct ctcttcttca agtccccctt gtggcgggga 660  
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atgaagcca gcctagcacc attgccacca gcatgcggga ttccctcatt gacagcctca 840  
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ccacattccg cccaatctgt accggatgct ggcaggagg tggcagagag ctactggga 960  
ctgaggggct gggcacccaa cccttttcca cctgtgctta tcgcctggat ctatcattac 1020  
tgcaaaaacc tgctctgttg tgctggctgg caggccctgt ggctgctggc tgagggttct 1080  
gctgtcctgt gccaccccat taaagtgcag ttccctccgg aaaaaaaaaa aaaaaaagg 1140  
cgcnac 1147

<210> 202  
<211> 688  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (477)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (684)

<223> n equals a,t,g, or c

<400> 202

```
acgtaccggt ccggtaatc ccgggtcgac ccacgcgtcc gctcggcggg cgctgttgag 60
ggagtcgggc cgcgactgtg gtcgttttta taccttcccg cgcggacgcc ggcgctgcc 120
acggaagggc gggtaggacg gagtttcgtc atgttgcca ggcccattg agatctttga 180
agatatctc aacgtgaggc tctgctgcc aagaagtga gattaagtgc tggaacggcg 240
tggccacttg gctctgggtg gccaacgat agaactgtg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgccg gcgacgactg cccgctgggtg tggggccagt 360
gctcccactg cttccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggcccc acctggntct 480
cgctggaggg gcacacctg actccttctt catgctggcg ccgatggctg ctggggacag 540
cgcccctgag ctgcaacaag gtggaacaaa gggctggagc tgcgtttgtt ttgccatcac 600
tatgttgaca cttttatcca ataagtga aactcattaa ctactcaaat cttaaaaaaa 660
aaawaaawaa atctcggggg gggncgccg 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

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aaatgtgaaa actaaggcct tgcaagccta tggttcacc aggggtagga tcaggcacct 60
taactctaga gccattctc ctaaccactg agccatgatt gtcttacaat tttgaatact 120
gcaaaactgg aagaattgtc tggctattat ctaagctgtt cataagctgg aacaagtaga 180
tctgagggtg agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
actatagagg gggaaaaatg gcckgggang tccataaatc taagccngtt tcatggatgt 300
tttt 304
```

<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

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```

tgatggccct gcaaggtgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120  
cgaagagcga ggttctgggc gagcgtgaa cgccggcccc aagcaccggt ggtctttaca 180  
cagtcgcgct ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240  
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaag ttgcccaggc 300  
gtggactcaa tgacytttcc aastgtgcgc ctcgytgcct ggaccgggtt gagcgcggtt 360  
gccaagtgtg aactttttgn ggggagggtt ttctctaagg gctgttgtct caatggg 417

<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

gggtcgaccc acgcgtccga ctagttctag atcgcgagcg gcccgccctt tttttttttt 60  
tttttttttt tggtttccag agtttggtt tattttgcag tacagaaatc atctggagcc 120  
gtctgagaca gacatccctg aagcggaggc tctgtcaaata caatactgcg tcgcacttrg 180  
tccgttgagg aagccacacc tgggttaciaa aagaagcttc tacgtttacc cgctgtacca 240  
cggatttctt tcccctttgc tcttaccaat ttaccagggt gaaaacaccg cacagaggct 300  
tccctcggaa tgacgctcgc gtctggagtt gggttagaat tgtgggcccg cgtgaccccc 360  
acctgtggct gtgttccgtg gccctgtcct aaacagctga cgggacacag acgtagaggg 420  
gcggggccac gcagggatgc tgttcccaan tcacgganta tctgggtggc ntcgcaatgg 480  
ccantgggac agatggcacg tgaaaggggc cgttccggn tcaagcggc agaagcacia 540  
gaccgcggag g 551

<210> 206

<211> 1101



<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 206

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tcccgggtcg acccagcgt nccgcccgt ggaggtgga gcttccgggc cctggaaagg 60
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ggcgccctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgaggtg 180
accttgctgc tgcagtgcc tggcgggggc ctgccccagg agcagataca ggccgagctg 240
agccccgcc atgaccgtcg cccactgcc ggtggggacg aggccatcac tgccatctgg 300
gagaccggc taaaggcca accctggctc ttcgacgcc ccaagtccg cctgcaactca 360
gccaccctgg cgctatttg ctctcgggg ccacagctgc tcctgcgcct gggccttact 420
tcctaccgag acttcctgg caccaactgg tccagctcag ctgcctggct gcgacasang 480
ggtgccaccg actgggggtga cagcaggcc tatctggcg acccactggg ggtgggcgct 540
gcactagcca cagccgatga ctctctgty ttctgcgcc gctcccggca ggtggctgag 600
gccccgggc tgggtggacgt acctggtgg caccctgagc ctgagccct gtgccctggt 660
ggcagcccc agcaccagga cctcgctgg cagctggtg tacatgaact cttttccagt 720
gtccttcagg agatctgtga tgaggtgaac ctgcccgtgc tcacctgag ccagcccctg 780
ctgttkggca tcgcccgaat tgagaccagt gctggccgag ccagtgccga gttctatgtc 840
cagtgcagcc tgacttctga gcaggtgagg aagcactacc tgagtggggg acccgaggcc 900
cacgagtcta caggaatctt ctttgtggag acacagaacg tgcggagatt gcccgagacg 960
gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020
agggaagtcc cactggagcg gccctagggt cccagccct actcccgccg ctctgaaaaa 1080
aataaacgac tttattcttg g 1101
```

<210> 207

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 207

```

gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acactgcgag aatacaaggt ggtggggcgc tgcctgccc ccccaaatg tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgaccc aatcacgtgg tcgccaagtc ccgcttttg 180
tactttgtgt ctcagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcatctggct gcgctatgac 300
tcgagaagcg gtaccacaaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtggttaccg agacatgggc gcccgacacc gttgcccag cgcatcgcg 420
tccagatnct tgaagtggna ggagattgnc agccancaat tgccgcccgg ccancattca 480
agcatttcca aggattccaa gatcaattcc cattg 515

```

<210> 208

<211> 269

<212> DNA

<213> Homo sapiens

<400> 208

```

aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac cttcctgggc catgcctggg tactgagraa cccagccctg 120
aatctggaca tcattttccc ttccagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaagggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269

```

<210> 209

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

&lt;400&gt; 209

```
cgactggttg ttaccgagga agatggcggc gccagaccgc aggcgctagg gaagatcgca 60
ccgcggacgc ccgctgagct tggcgacagg gccgaccagg agctggtgac tgccctcatg 120
tgtgatttgc ggcggccagc ggcagggtgg atgatggact tggcctacgt ctgtgagtgg 180
gagaaatggt ccaagagcac ccactgccc tgggtgcccc tggcctgcgc ctggctcctgc 240
cgaaatctca tcgccttcac catggacctg cgcacgantg accaggacct gacccgcatg 300
atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420
gacgggcaga tcaagtgtg gagcatggcg gaccacctgg ctaatagctg ggagagctca 480
gtgggcagcc tagtggaggg ggacccatt gtggccctgt cctggctgca caatggtgtg 540
aaactggccc tgcacgtgga gaagtcggcg gcctccagct tcggggagaa gttctcccga 600
gtcaagttct caccygttct cacgctgttc ggcggcaagc catggagggc tggatcgagg 660
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720
caccgagagc tntt 734
```

&lt;210&gt; 210

&lt;211&gt; 658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (561)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (567)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (577)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (580)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (636)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 210

```

cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttcg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcggtgccg atggcgcaaa ctcgatgggtg cggcgacatc tctacccgga tcatcaaadc 180
cgtaaatatg tcgctatcca gcagtgggttc gcgagaaaac atccggtgcc gttctactcc 240
tgcattcttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaaatg agcgcccttc agttccagtt tggtaagacg gtgaaaagcg aaaaatgcac 420
gggtgctgtt tccctcgcgc tggcaggatt ttgtctgcgg taaggacaac gcctttcttg 480
attggtgaac ggcgggattt atcagcgcca gctcgtgga agggattagc tatgcgctgg 540
atagcacaga catttctgcg ntogtgnatc tgaacancn gagaagctca ataccgttac 600
tggcgcgcca cccgaaactg ggttaaactc ttcgnaaga tataaaaagc catnctga 658

```

<210> 211

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 211

```

attcggagag ccattctctga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctgtt nttncacatg aagaaagtct caagttgctg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctgtt ggag                                     204

```

<210> 212

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 212

```

ttccgcagcc ttgccccagc ccaactcccc tctcacccta ccacagagca tggtaaatac 60
caagcccagc aagacggagg aggactcaga ggagggtgagg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttgccatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgcgag gagacagcca attacctggt 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcattggagc aggtggccca 300
ccagacaatc gtcatgcaat ttatctgga gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tctaatagat taagacagcc gatcgccagt acatggaggg 420

```

```

cttcaacgac gagctggaag ccttcaagga gcgtgtgcgg ggccgtgcc a gctgcgcat 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggtcgg gccccggcgg 540
cctggacccc gtcgaggtct acgagtcctt ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgcat cagcaagatg gacccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggc 720
caaggaggga gaggaggcag gtcctgggga cccattactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc ccagctacc accgccacct gcttccaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgtcc tgacttcctc 900
tacttgcgct gctcggccca gcctgggggg cccgcccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
agcccccat cagcattatg ccaaaggccc gggggtccgg ggaaggcgag aggtcaccag 1080
gctgggtctac caggtagtgt gggagggtcc ccagccaagg ggccggctct cgtcactggg 1140
ctctgttttc actgttcgtc tgctgtctgt gtcttctatt tggcaaacag caatgatctt 1200
ccaataaaag atttcagatg cnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa 1260
aaaaaaaaaa g 1271

```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

```

cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaacggcg gccgggaggg ggctccgggg accatggggc tctgaccat tctgaagaag 120
atgaagcaga aagagcgga gctgcgactg ctcatgcttg gcctggacaa tgtggaaag 180
acaacatcc tgaagaagt caatggggag gacatcgaca ccattctccc aacgctgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcatg caggactgcc agcgggagct ccagagcctg 420
ctgggtggagg agcgcttggc cggagcaacc ctctcatctt ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggycctgg agctggactc catccgcagc 540
caccactggt gcatccaggg ctgcagcgc gtcaccgggg agaacctgct gccgggcac 600
gactggctcc tggatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccca tgggggggttg 720
ggagtacgcc ggccaaacta aactccccc tctccaccc cagcctgctg ctgctactgc 780
tgcccgctgc tgctctgtgg ccaccggct cccatggcgg gagggtgtg ccctggctgt 840

```

162

```

ctctctggct cctgacctgg ccttttgcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggcctcatcc ttcactcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga                                           1025

```

&lt;210&gt; 214

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (332)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 214

```

ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gttaaataa cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaa tgggtattgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagtta attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaaac ttagratcca tgggtggaagg tgkargagga 300
agcatgcacc atcttcactg gccagagcag gnggagagag agcaaatttg g          351

```

&lt;210&gt; 215

&lt;211&gt; 1087

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1075)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 215

```

gtcggagtcc cagtccaccc gccacgcccg agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggcccct ggggccagca 120
gtcgggagga gccacctgag gagcctgagc agtgcccggg cattgacagc caagcccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtca aggacatcga gacggcctgc aagctgtca 300
acatcaccgc agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctctgtgga 360
cagagcacca ataccggctg ccccccattg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgctg catgtcgag gagcagttcc gccagcgctc gccctgggt ggggatgtgc 480
tgcacgccc cctggacatc tggaagtca cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gaggtggact 600
catcatgctc cgggcagccc atccacctgt ggcagttcct caaggagtgt ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccagggtggc cggctgtrgg gcatecgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa gggcatcatc cggagccag 840
acatctycca gcgscctcgtc taccagttcg tgcacccat ctgagtgcct ggcccagggc 900
ctgaaacccg cctcagggg cctctctcct gcctgccctg cctcagccag gccctgagat 960
gggggaaaac ggcagctctc tctgctgctc tgaccttcag agcccaaggt caaggagggg 1020

```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080  
ggctttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgcctgcngg naccgggtccg gaattcccgg gtcgacccac gcgtccggca gaagaagagg 60  
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gagcctcagc 120  
agcaggggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactctg 180  
gggagccagc tcccggtgctg tctctcccac ctccctgcaga cgtctccacc ttcctggctt 240  
ttccctctcc agagaagctg ctgcgcctag ggcccaagag ctccgtgctg atagcccagc 300  
agactgacac gtctgacccc gagaaggtgg tctctgcctt cctaaagggtg tcatctgtgt 360  
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420  
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctctgtgcaca 480  
tgggtctgct caagagtga gacaaggta aggccattgc caacctgtac ggccccctga 540  
tggcgctgaa ccacatggtg cagcaggact atttcccaa ggcccttgca cccctgtgc 600  
tggcgctcgt gaccaagccc aacagcgccc tggaaatctg ctctctcgcc cgccacagtc 660  
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccatcccttg gcctggacca 720  
gtgagctggg gagggactcg gatgaactga ggcgcagcct acgccattgc cttggacagg 780  
actctggcca caggcagggc ggggtctgtg cccatgtgtc ctgtcagtc cctgagtatg 840  
tgtgtgggtg tggcgcatgt gcaggctgtg gcctcctgtc gggatttggg ttttaacgtc 900  
ttctgctggc ccagccctgc tctgttgtgg ggagttggcc cccaggggaa agggctgtga 960  
gctgctccgc cattaaactc acctccacct gagggcgctc tgctgatctc cgctggggcc 1020  
ctgatggccg tccccacca cctgccttcc ggcccggctc cctggcggag caraaccar 1080  
ggagttgccc gcgtgctgtc cttccctctt gtgtgtgtat tgggttgttt cctgccttgc 1140  
ctggggctgc ttctcgtcac caagccctgg tctcgggca gctgtcacc ctaccatcca 1200  
taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260  
gtcggatcgt ggggttgttg gcagagggca accctgggccc ccacaccgtg tggacaggca 1320  
gacaccagat tgtccaggag caggagctgc tgggactgcg ctggccccgg acctagtggg 1380  
ccttctcctg gctgctgaga tgtcgtctgt gactggcctg gctggagggg gagtgttgac 1440  
aaccctaaagc tgttctccag tctggggagg gagaggcagg gtccccaatg tccgagctgc 1500  
atctggacgc tgctcttaaa ggacctcctg gggcagggga gcggtagggt ctggactggg 1560  
cagatgctgt atgacctccc tgagcaccgc tgactgcccc atgctttccc ctttgtgtc 1620

```

tgtgtgtgtc tggctgtgcc cgggggcttc acaaataaag tcgtgtggca gcttcagaga 1680
ctcagaaact ctactgaaa gcgggtagt ctcgggggcc gttgtactg gagtcccacc 1740
tcggcagagc atgcggcccc gcagcagtct gtggggcagt cagccctgca gaagggcccg 1800
gcctcggcct caggcactac ctgggaagt gcagtcctga gtggggggccc attttcctgc 1860
ctggscacac ctnaccagc accctgcctt tgggctgcag ctcgcttggc ttctgcgttg 1920
ctccttcact atggaagcca cctcccttg gatcctttgc tccactgcc catatgt 1977

```

&lt;210&gt; 217

&lt;211&gt; 2815

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

aattcccggt tgcacccacg cgtccggggt cccgcgtctg agcccagagg gctgtggagt 60
gtcccggcgt gccccgagca ccccgcgct gtccgtcccc cgctccggtc ttccgctttg 120
gcttccaaact agttaaagtc ccttgagcgc ggggtttccgc ggcccggctc ttccgccccg 180
cggcgcgagt tgagccgttt ccccgcgctg tccgcgcggg cgctccgaca gcggctctgc 240
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tgtagctaca tagttatctg tgtacatcca cgctggggca tttttctcct gcttaatgag 360
gacttgactc gggagcaagt gtgaatcatt gccggggctg ggaaaggagg aaggcgcatt 420
taacccccct ccacccctct ccatgtccgt gtgtcactcg gctcgggtcc cctggcgctg 480
ccggctcctg ggtgtgtgt gctgttgacg acgacgacga cgacgggggc tgctctgtct 540
gtcccgggag ttctctctct ctccggccac acagctcctg gggattgttc ctcttcgaac 600
cagaacctcg gcctgaccgg cactttggct ccaaaataac tttatttttg ggggagaaag 660
cacatcacga accagtcaaa atcgtgggtt atttctgtaa cgtgaagact tctgctcttt 720
tttctttgtt tgtttttttc gtaaacatct ggggtgtatat caaacggcaa gatgtccagt 780
aatgtcccggt cgatatgat aaatttgctc ctcatcttgg taagcggaaa aacaaaagag 840
ttcctgtttt ctctaacga ttctgttctt gacattgcaa agcatgtata tgacaattgg 900
ccaatggact gggaagaaga gcaggtcagc agtccaaata ttctacgact tatttatcaa 960
ggacgatttc tacatggaaa tgtcacatta ggagcattaa aacttccttt tggcaaaaca 1020
acagtgatgc atttgggtgg cagagagaca ttaccagagc caaactctca aggtcagagg 1080
aatcgtgaga agactggaga gagtaattgt tgtgtaatcc tgtaaacact gtctgcctag 1140
tgtgatgtga tatagtcttt gtctttcatg ctgctgggac agaaaagacc cgacattgct 1200
tcagaaaccg ttcagaacag tctgcctgta aacacatgga actgaattac cacatgaaca 1260
ctgtcatctt ttctcatgaa agtaaaaaga accaagaaca tttttcactc tgatttttta 1320
tttcttgat ttgtgttga gctgttttaa cacatattgg ttttgaatg cagtcaatct 1380
ccaggggaaa agttaacaag ttatctttcg tagcagaac catttgctg ccacaaaatt 1440
ttcatcatca gaactaataa atcaagtgtt ccaaatacaa tttgactaa aaagattggc 1500
attattttcc tcatcagcag aatttataac agtgtgtggt atctagaaat acttatatat 1560
acaattccac actggaagac actcagcaat taatgaagtt aattactggg ccaacttgag 1620
aggaaaaaat ggaaaagaaa ctaaaatgtt ggggtgaattc taccaaagtc agccgtgggtg 1680
gctgcactgg cacagaatac taaactgagt gtgactatct tctactgaac aaatgaaaaa 1740
acaaaatgtg cctgtttaaa gcaactcagta gagggctgat gaaactaatt ttttttctct 1800
taagacatgc actcttgagt cctacagtaa ctgagtgttt gtttagacag cacaagaagg 1860
ggtagagtg cgtctcctag ccttaatgtg ggagggtagt ttcagtcact catcggtctt 1920
cattattgtg crgaatatatt agaaaacctc attgatcaat tttatgtatt tgaatatcag 1980
caaattgaaa ttttcataa ttatcattaa tttgtaacca catccagtgt catgcttact 2040
ccttagagtt cagatgaatt cttaaaatta aaaaaaaact ccatagtact aattttgktt 2100
ctttatatag ttgcgtttg atattagtgc ttgcaattgt attaaagtca aaagctgatt 2160
tttatggcat acacaagaat gccacttttt cttttatttc ataccaataa tttaaagatt 2220
gatatgctaa aaacaatttg cacagcacta aagcatgagc tactttcatc taaacctgta 2280

```



```

aaaatatgaa agatttttat attttttcac tgggaagaaa ttcttcctgg atgaaattac 2340
aaatatgtgt agaatatatt taataaaaga cttataaaat acctaactac aggacttaaa 2400
atatagattg gcgcgtagta tatagaacaa tattccatat aaataagttt agcctttata 2460
aaaatgaagt tgcaggctga cattacattc tgtacttact aagtgtcaac agcccttaca 2520
aacattaaat gtaaatggtt tcaaatggtc agcgttggtt aaatgtaatc atgttatttt 2580
attcattggt aatgctttga tgaaaaggct ttatatgcag tagatctacg aaaatattgt 2640
tcatactgat cagaattaaa ttgtataga gcagagtttt aaaatgaatg taaatagcac 2700
taaacgtttt cttctgcaa cctgtactta cagattcttc ctgtaaacta aataaaaaaa 2760
aatgatagt gcaaaaaaaa aaaaaaaggg cggccgctcg cgatctagaa ctagt      2815

```

<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

```

gcccacgcgt ccggagggcg gggacaactg ggtcttttgc ggctgcagcg ggcttgtagg 60
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tggtcgggtg tttgctggtg ccccagctg aagccaacaa gagtctgaa gatatccggt 180
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aaaaaaaaaa aaaaaaaaaa aangg 1645

<210> 219  
<211> 478  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (452)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<400> 219  
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<210> 220  
<211> 832  
<212> DNA  
<213> Homo sapiens

<400> 220  
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cagcccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180  
ttttctttta cttctaaaaa agttacagtt tactaataaa gttaagtctg gttctgtcct 240  
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ccacccagat taattaaagt ggagcagtg agccctggc tgggagatgg cctccagagg 360

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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa an

1892

&lt;210&gt; 222

&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (829)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (860)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 222

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<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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cattctggac aactgccc aaatttccaa tcgtgaccaa cgggacaagg atggtgatgg 240  
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tggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480  
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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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gctggacgag gtcattggtg ccgctgenst tacaagcctg tccaccagcc ctctccttct 180
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171

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&lt;210&gt; 225

&lt;211&gt; 584

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (486)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (542)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (562)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 225

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ggaaacccag acccaagacc aaccgatgga ggaggaggag gttgagacgt tcgcctttca 120
ggcagaaaty gcscagttga tgcrytgat catcaayacy ttctactcga acaargagat 180
cttcttgceg gactgatctc caactcgtcc gacgctcygg acaaaatccg atacgagagc 240
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gcgggcgcag atatttcyat gattggccag ttcggggtcg ggttctattc ggcctacttg 480
gtggcnagaa ggtgacggtg ataccaagc acaacgatga cgagcattac gcctgggagt 540
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&lt;210&gt; 226

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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 <222> (34)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (498)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (514)  
 <223> n equals a,t,g, or c

<400> 226  
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<210> 227  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2369)  
 <223> n equals a,t,g, or c

<400> 227  
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 cagtcaact attgttgtac tgactgggac ttcattattct aatggatgtg gcaaaagaat 780  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaang aaaaaag 2377

```

&lt;210&gt; 228

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

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aatacatgcc aaatggatca ttaaatgaac tcctacatag gaaaactgaa tctcctgatg 60
ttgcttgccc attgagattt cgcacccctg atgaaattgc ccttggtgta aattacctgc 120
acaatatgac tcctccttta cttcatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgttaagatt gcagattttg gtttatcaaa gtggcgcatg atgtccctct 240
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cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgtc accaatcctt 420
tgcagataat gtatagtgtg tcacaaggac attggactgg tat 463

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&lt;210&gt; 229

&lt;211&gt; 1232

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

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caggtgagca tctgaacaag gggcagtcgg ccagggtggg cttgcgggag tccccacctt 60
gacctctctc ccttccagct gcccagagcc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgccctgt ccgcggggcc tcgggcatcc agggcctggc 180
caggtttttc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240

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ataaaaaatg caggtaaacac gtcaaaaaaa aa 1232
```

&lt;210&gt; 230

&lt;211&gt; 1063

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```
gcccacgcgt ccgctcagcg gctgccaaca gatcatgagc catcagctcc tctggggcca 60
gctataggac aacagaactc tcacaaaagg accagacaca gtgggcacca tgggacagtg 120
tcggtcagcc aacgcagagg atgctcagga attcagtgat gtggagaggc ccattgagac 180
cctcatcaag aactttcacc agtactccgt ggagggtggg aaggagagcg tgacccttc 240
tgagctacgg gacctggtca ccagcagct gcccatctc atgccgagca actgtggcct 300
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aaacttgtct cctctaccac caccctgtac ctagcctgc acctgtccwc atctctgcaa 540
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atattgattaa taaaaaaaaa tgaaaaaagt gaaaaaaaaa aaa 1063
```

&lt;210&gt; 231

&lt;211&gt; 1063

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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gagtccttag acggggcgaa aacgggaaaa ggggccttaa ctggggcacc tggctccttt 180
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cctataatgc aagaaccaag gcgagtcacg ccctgtctgg gcaaaagagg agtaaagacc 300
cctcagctgc agcccggcag cgcattccta ccagggtcc gccgccagag ctttcccgcg 360
cggtcggata gttacactac tgtccgggac ttcctagccg tgccgcggac catctcaagt 420
gcttccgcca cactcatcat ggcggtggca gtaagtcact tccgcccggg accggaartg 480
tgggatactg cgagtatggc ggcgtcaaag gtgaagcagg acatgcctcc gccggggggc 540
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gccagccacg gcttcatgtg gtacacgtag gccctgtgcc ctccggccac ctggatccct 960
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa nan 1063
```

<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

&lt;400&gt; 232

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acaaattcgt cattggccac ttaaagggtg cctctgccaa ctggtggaat catcgccact 180
tccagcacca cgccaagcct aacatcttcc acaaggatcc cgatgtgaac atgctgcacg 240
tgtttgttct gggcgaaatg cagcccatcg agtacggcaa gaagaagctg aaatacctgc 300
cctacaatca ccagcacgaa tacttcttcc tgattgggcc gccgctgctc atccccatgt 360
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cacagatgaa tcacatcgtc atggagattg accaggaggc ctaccgtgac tggttcagta 600
gccagctgac agccacctgc aacgtggagc agtccttctt caacgactgg ttcagtggac 660
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aggctctctt aagatgttca agggcccaag gccg                                     1474

```

&lt;210&gt; 233

&lt;211&gt; 1782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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gatctatcta tctatttttt aagcctgcat cacttcttga gataatgagg tttctacctc 120
caaagcctgc tgggtgagca ccttgctcat tatactggwt ctgaatttac ctctttgaag 180
tttctagatg caccacttcc tgctcacagc ctggaattcg gttaacaagt cagtgtcaac 240
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caccaccacc gtgcccctct ytgscctcagc ttcccctctt cccctgcagt gagtctctg 660
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caatcacagc atgacctctc caacgcaacg gccacgcca gtgtccgaaa gaaggccggc 780
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aaattcgggg ggggcccctn acccattggc cctaaggggg gg 1782
```

<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2189)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2202)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

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acagggtctg gagccaagct cagagaacgc caatgacacc atcattttgc gcaacctgaa 60
cccacacagc accatggatt ccatcctggg ggccctggca ccctacgcgg tgctgtcctc 120
ctccaacgtg cgcgtcataa aggacaagca gacccaactg aaccgcggct ttgccttcat 180
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```

&lt;210&gt; 235

&lt;211&gt; 2580

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2558)  
<223> n equals a,t,g, or c

<400> 235  
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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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aagaggctgt ctgtgtcatt atgtgtgcgt cggccaagta taatatccgg ggtcctgccc 180
tcatcccaag aatgaagacc aagcaccgaa tctactatat caccctcttc tccattgtcc 240
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nggggggn                                         3008

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&lt;210&gt; 237

&lt;211&gt; 877

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (834)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (854)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

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caattattga agtcaagtga tgggcacaga ggattgatag ctcaaataag gcttgggtact 60
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ctgtgattgc gactgtgcag atytccacac atacctaagt cgctgcaact ccattaaagt 540
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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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tggtcacacg ccaggggaaag attgtcctgg aggacggcac cctgcatgtn accgaangct 180
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aagtgtctgt gacgcccagg acagtcactc cagcctcctc ggccaagacg tctcctgcca 360
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aaaaaaaaaa aaaaaaaaaa aaccccgggg gggggcccn 3039

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&lt;210&gt; 239

&lt;211&gt; 1992

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (13)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature  
<222> (29)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1989)  
<223> n equals a,t,g, or c

<400> 239  
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tgggcatga gctggagatg atccggccca gcgtctaccg caacgtggcg cgtcagctgc 180  
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tggccgtgga ctgtgtgagg caggcccagc ctgccatggt ccacgcctc gtggactgcc 360  
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tgacattgag atccactgg agggtagggg tggtaataaa cttctccaaa cgatgcgttg 1920  
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aaaaaaaaanc cc 1992

<210> 240

<211> 497

<212> DNA

<213> Homo sapiens

<220>

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<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 240

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gcaggagacg caggcatggc cggtagctg actcctgagg aggaggcca gtacaaaaag 180
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gttgacrgcg acgcgacgg cgaaatcagc ttccaggagt tcctgacggc ggcrargaag 360
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<210> 241

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<400> 241

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ccaraaagca ggcaggacgt gatggatatt gtatttatag agcaactttc ggtaatcacc 240
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tggcgtgggg ntaacc                                     316

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<210> 242

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

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aaaaaagat ccttcaaagg gcagatgggt agaaggcata acctctgagg gttaccatta 180
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gtttcttagg tttttgtaga gttttgctaa gcaactttat ttacaaatac tccactccct 360
ccacccccaa actgtgtcct ttttttccc ataatgcttt tgtagaagg ctggatggag 420
atgaaatagt gatctctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480

```

```

aggctgaggc atgtggatca caaggtcagg agttaaagac cagcctggcc aagatgggtga 540
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atcccagcta ctcaggaggc tgagtcaggg gaatcactgg gacctggggc gccagagggtt 660
aacagtgagc cgagattgca ccaccgcact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 780
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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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taatgacatt actgtttgta gaatgacata tgcagatttt ctcataagca gtcatttgtt 360
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tacactgctt ataatactaa tgtttacaga tatgtttctg tttataacca tataatacat 720
tggctttgtc atattagttt tttttgcaag tagttatgta aaagagatag ataataaaat 780
attaataaac aaaaaaaaaa raaaargctc gagtaarggc anagtggcat gngccata 838

```

<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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ccaaagctgc cttcaagcgc ttcaaaactc tacggcacc caacatcctg gcttacatcg 180
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tacaccagat cgtgaaagcc ctcagcttcc tggtaacga ctgcagcctc atccacaaca 360
atgtctgcat ggcgcgcgtg ttcgtggacc gagctggcga gtggaagctt gggggcctgg 420
actacatgta ttcggccccag ggcaacggtg ggggamctcc ccgcaaggga tccccgagct 480
tgagcagtat gaccccccg agttggctga cagcagtggtc agagtgggtc gagagaagtg 540
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taagctggtg ggagcaaac ccaaggtgcg tcccaacca gcccgcttcc tgcagaactg 720
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cacgtgtaca taatcagagc cacaataaat tctatttcac accccttgtg ccgggctcag 2520
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```



```

acgtgaacat caatttgctt cgaaagccaa gggtaaagag gcacgatytg atttatcagt 2640
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcggccctg aaggctccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
gcggaaatcc ctcaagtgat caccgaggtc tgg                                     2853

```

<210> 245

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<400> 245

```

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tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgccgtcact 180
cacaccttct gcggcaccat tgagtacatg gccctgnag attctggtgc gcagtggcca 240
caaccgggct gtggactggg ggagcctggg ggccctgatg tacgacatgc tacttgatc 300
gccgcccctt accgcagaga accggaagaa aaccatggat aagatcatca ggggcaagct 360
ggcactgccc ccctacctca cccagatgc ccgggacctt gtcaaaaagt ttctgaaacg 420
gaatcccagc cagcggattg ggggtggccc aggggatgct gctgatgtgc agagacatcc 480
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gccctgtctg cagtcagagg aggacgtgag ccagtttgat acccgcttca cagggcagac 600
gccggtggac agtcctgatg acacagccct cagcgagagt gcccaaccagg ccttcctggg 660
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caagctgcgc tcaccagggc gcctcaacag tagcccccg gccccgtca gccccctcaa 780
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tgtgtctgct ggggcagctg tgccccgaa tcatgggcac ggaggccgcc cgccrmgcc 1140
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```

<210> 246

<211> 848

<212> DNA

<213> Homo sapiens

<400> 246

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ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc gggtaggacg gcggcgcgcc ggggagctgc gcaagatcca ggcgcggatg 120

```

```

ggcgtgttcg cgcaggctga cggctcggcc tacattgagc agggcaacac caaggcactg 180
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gccctagtga actgtcaata tagttcagcg accttcagca caggtgagcg caagcracgg 300
ccacatgggg accgtaagtc ctgtgagatg ggcctgcagc tccgccagac ttctgaagca 360
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gcagatgggtg ggacctatgc agcttgtgtg aatgcagcca cgctggcagt gctggatgcc 480
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ctgccagcct caggacagat tgcgctgctt gagatggatg cccggtgca cgaggaccac 660
ctggagcggg tggtggaggc tgctgcccag gctgcccag atgtgcacac cctcttagat 720
cgagtggtec ggcagcatgt gcgtgaggcc tctatcttgc tgggggactg accaccagc 780
caccatgtc cagaataaaa ccctcctctg cccamaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa

```

<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

```

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gaagatgaag aagatgatgt gtcagagggc tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgcccagc accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtgga ccccctgcgg accgcaccag ggccaggatg aagggcgggg gccagccccg 300
ggcagcggca cccgccaggt gttctccatg gcagccatga acaagggaagg gggaacagct 360
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gatcccgteg agtggaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcaggcga cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
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ttttctttct gttgattgtc gctccagctg gctgtattgc tttttaatat tgcaccgaag 1260

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kttttttaaa taaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320  
aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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tgtegccatc gacatgatgg actctcggac cagccagcag ctgcagctca ttgacgagca 180  
ggattcctac atccagagtc gggcagacac catgcagaac attgagtcga caattgttga 240  
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ggccagctgg gggccagtgg gggagggtgt ttccactagg agatttttat aaacctctc 780  
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ctttcaccat gtgaggcagg gagccctgag cccttcagct gcctgcacaa cccctgacat 960  
tggtgctgtg tgactcaatc tgccaaatgt gctgcagctc gttttctccc aattacagca 1020  
agactgtcag cctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1076

<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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accagtggcc atggttgcca gccttgtgcc tgccacccaa gccgggccag agggcmwcc 180  
gcaacgagtt cacagggcag tgccactgcs gtgccggctt tggagggcgg acttgttctg 240  
agtgccaaaga gctccactgg ggagaccctg ggttgcaagt ccatgcctgt rattgtract 300  
ctcgtggaat agatacacct cagtgtcacc gcttcacagg tcaactgcagc tgccgcccag 360  
ggtgtctggt gtgcgctgtg accagtgtgc ccgtggcttc tcaggaatct ttctgtcctg 420  
ccatccctgc catgcatgct tcggggattg ggaccgagt gtgcaggact tggcagcccc 480  
tacacagcgc cttaggcagc gggcgagga gttgcaacag acgggtgtgc tgggtgcctt 540  
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ccgcaacacc tcagccgcct ccactgcaca gcttgtggag gccacagagg agctgcggcg 660  
tgaaattggg gagggccactg agcacctgac tcagctcgag gcagacctga cagatgtgca 720

```

agatgagaac ttcaatgcca accatgcact aagtggctctg gagcgagata ggcttgcaact 780
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```

<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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cgagcccagc ctggccgtgt cagcgccggg ccgcgtgcaa cctcatcggg gaacacacgg 180
actacaacca gggcctgggt ctgcctatgg ctctggagct catgacggtg ctggtgggca 240
gcccccgcaa gnatgggctg gtgtctctcc tcaccacctc tgaggggtgcc gatgagcccc 300

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```

agcggctgca gtttccactg cccacagccc agcgcctcgct ggagcctggg actcctcggg 360
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aacttgctgc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aagaaaaaaa aaaaaaaaaa

```

&lt;210&gt; 251

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

```

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cttgcctgtcc tccagctctg ctgaggagta cgtgggcctg tctgcaaacc agtgtgccgt 120
gccagccaag gacagggtgg actgcggcta ccccatgtc accccaagg agtgcaacaa 180
ccggggctgc tgccttgact ccaggatccc tggagtgcct tgggtgttca agcccctgca 240
ggaagcagaa tgcaccttct gaggcacctc cagctgcccc cggccggggg atgcgaggct 300
cggagcacc ttgcccggct gtgattgctg ccaggcactg ttcattctcag cttttctgtc 360
cctttgctcc cggcaagcgc ttctgctgaa agtcatatc tggagcctga tgtcttaacg 420
aataaaggtc ccatgtctca cccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg

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&lt;210&gt; 252

&lt;211&gt; 2491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (16)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2457)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 252

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gactcgctcg acccgtcctt cactcacgcc atgcagctgc tgacggcaga aattgagaag 240
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tctagaggat ccaagcttac gaccccgga t 2491
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&lt;210&gt; 253

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

```

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cgagatattt ttgggagtta ttccctaaat aactgcatta tatgctcctt tcatgacgaa 120
attgctgccg tggagaagac tggaggaaac tcgaggaaga gggagaagcc gacaagtgtc 180
cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggcc agtaaggctg 240
agtgacccgg cgtgctacta ggagaaggac gtacggtcct gctagtagag gaatatgtcg 300
agtttctcta gggcgcccca gcaatgggcc acttttgcta gaatatggta tctcttagat 360
gggaaaatgc agccacctgg caaacttgct gctatggcat ctataagact tcagggatta 420
cataaacctg tgtaccatgc actgagtgc tgtggggatc atgttggtat aatgaacaca 480
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taccaggtg gatttagaca agtaacagct gctcagcttc acctgagggg tccagtggca 600
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agaaccattt ttatgtaatc tgatttgaat gttatagttg ataataataa aatcacttac 1080
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```

&lt;210&gt; 254

&lt;211&gt; 1409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

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cactttgtct tttcttaagt aattatggta tatataaggc gttgggaaaa aacattttat 60
aatgaaagta tgtagggagt caaatgctta ctgtaaatgc ataagagacg ttaaaaataa 120
cactgcactt tcaggaatgt ttgcttatgg tcctgattag aaagaaacag ttgtctatgc 180
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gaagattctt ttttccaaac agtaggtttc atccaagacc atttgaagaa ctgcaaacct 360
tttctcttag aaaagaaaga gggcagccta aaataaacgc aaaatttgct tatactccat 420
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ttagatcaaa atattcttta tgtaggtatt gttaaaaggc tagagcctac aagttgctct 540
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ttaaattggg gtataatcta atcttcattg tttaaatggg ttgccttctc accattgaag 1140
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tgaaaattga acttttaagt taggaagaag ttagagtcag ggaacttgta taccactatc 1260

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tatgcagcat tgttatagtc tgattatttc tgtgttttga atatgatttt cctaattgctc 1320  
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<210> 255

<211> 490

<212> DNA

<213> Homo sapiens

<400> 255

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tcgccgccca ggccgcctgg gttccacttc cagcaacagc tcctgcagca gtaccgagtg 180  
ccccggggaa gccattcccc acccccagcgt tctccccaag gctgaccggg gtcattgggtg 240  
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agagcactcg gaacctcccc aggcctccag cagcatgamc gcctgtggcc tggctcggga 360  
agccccgagg aagcagcccc gcggtcagtc cagcamagcc agcgtgggc ccccgctctg 420  
aactgagcgg ttaacaacaa gccccaagcc tkcggagcgt ctagtycaac agagccctcc 480  
gggccctttg 490

<210> 256

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (931)

<223> n equals a,t,g, or c

<400> 256

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ggagccctgc cctgaggatt acaagtacat ctacagagaac tgcgagacgt ccaccatgaa 120  
catcgatcgc aacatcacc cctgcagca ctgcacgttt gtggacgact gctctagctc 180  
caactgcctg tgcggccast tcagcatccg gtgctggtat gacaaggatg ggcgattgct 240  
ccaggaattt aacaagattg agcctccgct gatttttcgag tgtaaccagg cgtgctcatg 300  
ctggagaaac tgcaagaacc gggtcgtaca gagggtgcac aagggtgcggc tacagctcta 360  
ccgaacagcc aagatgggct ggggggtccg cgccctgcag accatcccac aggggacctt 420  
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ttcttacctc ttcgacttag acaacaagga tggagagggt tactgcatag atgcccgtta 540  
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<210> 257

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2395)

<223> n equals a,t,g, or c

<400> 257

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cctgcgatcg aaggggactt gagactcacc ggccgcacgc catgaggggc ctgtgggtgc 180
tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttgatg 240
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aagtagtaca gagagaggaa gaagctattc agttggatgg attaaatgca tcacaaataa 360
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caacttctga attgattggc cagtttggtg tcggtttcta ttccgccttc cttgtagcag 780
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<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2071)

<223> n equals a,t,g, or c

<400> 258

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gggacccgaa cccagcctct cccctacccg aacaccggcc ccggctccac cgaggcccg 180
gtccccagc ccgtctcgcc gccgccatgg cggaccctaa atacgccgac cttcccgca 240
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aactaaataa aaaatgagta cagagccaga gccagagttt caaaatattc tcatctgta 1980
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attaaaactc aaaaaaaaaa aaaaaaaanc ncaagggggg gcccggtccc ca 2092
```

<210> 259

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 259

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ctcttttcctt aacagtgact tgggcttgag tctggcaagg aaccttgctt ttagcttcac 180
caccaaggag agagaccaa agcctctgat ttttaatttc cataaaatgt tagaagtata 240
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actgaaaaaa aaaaacnggg ggggccg 387
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<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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tgaagattct tcgttgtaaa gccgcaaaag tggagagtgc gattgcagaa gggggtgctt 180
ctcgtttcag tcttctctcg ggcggaggag gaagttaggg tgcacctcag cactatccca 240
agactgctgg caacagcgag ttcttgggga aaacccaggg gcaaaacgct cagaaatgga 300
ttcttgacag aagcactaga cgagatgaca actccgcagc aaacaactcc gcaaacgaaa 360
aagaacgaca tgatgcaatc ttcaggaaaag taagaggcat actaaataag cttactcctg 420
aaaagtttga caagctatgc cttgagctcc tcaatgtggg ttagaggtct aaactcatcc 480
ttaaaggggt catactgctg attgtggaca aagccctaga agagccaaag tatagctcac 540
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cagaggggtca accaggacag aagcaaagca ccacattcag acgcctccta atttccaaat 660
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<210> 261

<211> 897

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 261

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ccgactacct ctccccggag gagatacaga ggcagctgca ggacatcgag aggcggctgg 180
acgccctgga gctccgcggc gtggagctgg agaagcgact gcgggcggcc gagggagatg 240
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tgagacagga gtcagagctg atgtacaagt ccaaggccca gcgtctggag gaggcagcagc 360
tggaacatcga gggcgagctg cgccggctca tggccaagcc cgaggctctg aagtcactgc 420
aggagcgggc gcgggagcag gagctgctgg agcartacgt gagcaccgtg aacgaccgca 480
rtgacatcgt ggactcgctk gacgaggacc ggctccsgga acaagaggag gatcagatgc 540

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```

tgcgggacat gattgagaag ctgggcctcc agaggaagaa gtccaagttc cgcttggtcca 600
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ctcggcccg acctggcatc cggacttgga ctcggggcca tgggcttggc ccggaccgg 720
aaccgggact tgtactcggg gccgtgggct cggcccgac ccggcattcg gacttggaact 780
cgggaagggc ctctgtccc tacaaggggc atgtggacag caggacctg cgctaccgtc 840
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<210> 262

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1791)

<223> n equals a,t,g, or c

<400> 262

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gcacgtggca tcggtgaaca acttccccac ggctgcgggc ctggcctcct cagcggcggg 480
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<sup>19</sup>  
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 tgggtgtggc tggaatggtg gcaggagtgg gcaccagtgc ggccccggtg gccatgggga 1860  
 ataaaccagc attgctgcca aaaaaaaaaa aaaaaaaaaa aaaaa 1905

<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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 gtgactgttt gattttaaaa agtgtgactg tcagttgtat ctgttgcttt tctcaatgat 180  
 tcaggagatac aaatgggctt ctctcattca ttaaaagaaa acgcgacatc tttctaagat 240  
 tctctgtggg aaaatgactg tcaataaaaat gcgggtttct ggccattcgt tcttactttc 300  
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 gtaaaagtcc caggttctaa attaaactaaa tgtgtacaga aatgaacgtg taagtaatgt 480  
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<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1196)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1229)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1284)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1287)  
<223> n equals a,t,g, or c

<400> 264  
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ccgtcccgcg gccccagcc gcccccaacc ctgccccacg ggccccggcg catgagtga 180  
ctggagcaac tgagacagga ggccgagcag ctccggaacc agatccggga tgcccgaaaa 240  
gcatgtgggg actcaacact gaccagatc acagctgggc tggaccagc ggggagaatc 300  
cagatgagga cccggaggac cctccgtggg cacctggcaa agatctatgc catgcactgg 360  
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tccctgccct tccaaccaag tttngtn 1287

<210> 265  
<211> 991  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature



&lt;222&gt; (421)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (966)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 265

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aaaaanaaaa aaaaaaaaaa aaaaaaaaaa a 991
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&lt;210&gt; 266

&lt;211&gt; 2320

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

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cctccacctc cccttgttg ggatggcgac gatgcagagg gtgctctggg aggtgccttc 420
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cagcaccctt gcctccttg aagtcctctt ccagctccca gcctctgccc cagggttccg 780
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gcccccgag cagcctttgt actctgcttg cggagggtg ggagaccctc caggacattc 2220
ccaccctccc ccatgctgcc aagttgtagc tatagtaca aataaaaaaa aaccttgttt 2280
tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2320
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<210> 267

<211> 423

<212> DNA

<213> Homo sapiens

<400> 267

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aggrrgagctc tggagggtgg acatccccct gaagctcgtg atgatcgttg gcatcgattg 180
tkaccatgac atgacagctg ggcggaggtc aatcgagga tttgttgcca gcatcaatga 240
agggatgacc cgctggttct cagctgcat atttcaggat agaggacagg agctggtaga 300
tgggtcctaaa gtctgcctgc aagcggctct gagggcttgg aatagctgca atgagtacat 360
gccagccggg atcatcgtgt accgsgtggc gtaggagacg gccagytgaa aacctggtg 420
act 423
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<210> 268

<211> 1846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1816)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<400> 268

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```

<210> 269

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (556)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 269

```
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gtctcactact ctacaccagt attgctgtcc tactcaggtc cttgactcca tgaagcttac 180
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cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
gactaaaatt tggganaagc aaacttggac ttggacttgg aactggatcc tcccgtagcc 600
g 601
```

&lt;210&gt; 270

&lt;211&gt; 880

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (876)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 270

```
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ttagagatgg agctccttcc ttttcctggt tcttaatttt tgtcttctca ttctgcttc 360
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aatctattct gtatccacca ggtggcagca tcttgtcata cgtgtcagga cttaggactg 480
cgggggttag gtttagatgtc acggaaaaag ctagtctgtg ggtcaggcgg caccaatgag 540
aaagggaatgc agaccctcca gatgtatcct tgggaaaagc agtaaaccaa ctaatattta 600
ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tgggttcttc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatttc caccacagca 720
gattttaaga aattataata tgtaatatat gatatttata aagagtatat ctaacgtgaa 780
taaattatga agcatactaa tgagtacctt tgaccataaa cacatatata ttaaacatt 840
ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 880
```

&lt;210&gt; 271

&lt;211&gt; 2484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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cgatcaagtt ccttcccatt tctccatctg ggggacctg aacgtgcaca tcctcagaga 180
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210

```

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gggtctgcc cactggccgc tgttcgacca ggaggagcaa tacctgcagc tgaacctaca 2160
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tgtaatttc cccgtttttt gggn                                     2484

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&lt;210&gt; 272

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

```

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aaatggcatt gaagtctttc ttttaaccctt tatgagttaa ttaataata atgatctgag 720
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                                     751

```

&lt;210&gt; 273

&lt;211&gt; 3309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3279)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 273

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gccagggtag aaaccaagg gtcagggtg ggctggagga cacggctgag gtcctcccaa 120
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ttgcctaa 3309

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&lt;210&gt; 274

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (780)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (833)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 274

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cactcccacg accagtgacc aggagttaaa ctttgggatg tgcccgtgat gttggaccac 180
aaggacttag aggccgaaat ccacccttg aaaaatgaag aaagaaaatc gcaggaaaat 240
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tgt 843

```

&lt;210&gt; 275

&lt;211&gt; 2028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

```

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```



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acaggatttt aaacatggtg tggatttcta aagccttttt tttaaaaaaa gagatctttt 1920
tgagagaaac aaatgaggat tgtaaagttt ggggacttac ctctgtagca ttgtgaaaat 1980
aaactttgat taagctgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2028

```

&lt;210&gt; 276

&lt;211&gt; 1455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (759)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1408)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

```

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```

```

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ctggggacaa gtgtg

```

&lt;210&gt; 277

&lt;211&gt; 1923

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1814)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 277

```

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aagaatggtt agaagataaa ggtcaagtac taaatattca gatgagaaga acattgcata 600
aagcatttaa gggatcaatt tttgtgtgt ttgatagcat tgaatctgct aagaaatttg 660
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gaactagaat attagctatt gacgatgggc ctttcccaca ggccatttat ggtgtctcct 1800
aggctgggct ttgnatattt acacaggaaa gttgggtaac actagaaata attacttgg 1860

```

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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atgaggcctt catgaacggt taccttctcc atacactagg gaagcatttg tcagactctg 300  
cagactgggt tctagagagg cagagtcttt aagagtattc atttcttctg gaagggtggag 360  
ctttacccaa agtgaaggt agccttgctc aaagatgtgt tttgtggtag gtggtaaaaa 420  
taaataaata aataaataat aaaaaaagaa acatgtattg gaggtaatgt gacactgctg 480  
ctggcagtag ttctctattc accattttta agccatttca ggttctctct tcctgaaaag 540  
aactgattgc tgtgtttaca tgaaatgaca ttggagtcag atggtctgtt ttaaagattt 600  
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<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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ttcgcgctcg gcttgctcgg cgggagctcg tctcgatgct agcccgcgag ctaccgcccg 180
ccgtcgcccc tgcggggcca gctagcttag cgcgctggac gctgggcttc tgcgacgagc 240
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caccgccaca gcgtgtgacc ctcacrtac ctgtcctgaa tgcagcacga actgtcatct 600
ttgtggcaac tggagaaggc aaggcagctg ttctgaagcg cattttggag gaccaggagg 660
aaaacccgct gcccgccgcc ctggtccagc cccacaccgg gaaactgtgc tggttcttgg 720
acgaggcggc cgccgcctc ctgaccgtgc ccttcgagaa gcattccact ttgtagctgg 780
ccagagggac gccgcagctg ggaccaggca cgcggccnat ggggctgggc ccctgctggc 840
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```

<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

&lt;400&gt; 280

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ggtttactta atcaggacat gggcctaaga acaaaccttt tcccttcatg ataacatcca 180
tagacaactt attagaaggg actagagttt ttgcaaattt ccctgctgga tggggcctat 240
agctatactt agtatatgcc taaacatggt aattggatag taaatggttt tctagtcca 300
ttgctgtata ttgcctaaa tggacttgtg ttcaaattat ttcttcaatt gtcatagata 360
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```

&lt;210&gt; 281

&lt;211&gt; 1755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

```

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tactgttctt tggcccttct cccgaccctg agccctgctc tgctacgact gcgtgggtga 120
agtcgtctat aaaaactcat ctctgcgctt ctcttcgcca cattcgcttc ctgctttcgg 180
tgtgtctgtt gtgtcttgtt gcgggcaccg cagtcgccgt gaagatggcg tctaccagcc 240
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gagttggaga ttctcagaat cctcttctga gtgatggaga tttgtctacc atgattggca 480
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acagaatcaa tctacctcga aatatagtgt atcgaacaaa taattttattc aagcaagtat 660
atgaacagaa gagcctgaag ggaagagcta atgatgctat agcttctgct tgtctctata 720
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ataatgcaaa tcattgcagc taataaagct gatagacttt atttccatta cttatatata 1560
catagttttt tattttaata aatttatgga aagagcaaaa gcttttgaga accattgtta 1620
acatcaacat catagtttcc agtttgaaag gatgtgtatg tgagatttat tatgtatatt 1680
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```

<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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<210> 283

<211> 1556

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1324)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1339)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 283

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&lt;210&gt; 284

&lt;211&gt; 1029

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (828)

&lt;223&gt; n equals a,t,g, or c

220

<220>  
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 <222> (958)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (972)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (976)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (987)  
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<220>  
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 <222> (1007)  
 <223> n equals a,t,g, or c

<400> 284  
 tgatggtgtg gtccaatgag cgggtcatgg gttgggtgtc cgggctgggc tgaaggaatt 60  
 tgccacgaac ctcacggaga gcgggtaca cggggcactg ctgcacctgg acgagacctt 120  
 cgactactcc gacctggcct tgetcctgca gatccccacg cagaatgcac aggcccgga 180  
 gcttctggag aaggaattca gcaaccttat ctcccttaggc acagacaggc ggctggacga 240  
 ggacagcgcc aagtctttca gccgctcccc atcctggcgg aagatgttcc gggagaagga 300  
 cctccgaggc gtaactcccg actcagctga gatgttgccc cccaactttc gttcggctgc 360  
 agcgggagcc ctgggctctc cggggctccc tctccgaag ctgcagccag aaggccagac 420  
 ttctgggagt tcccgggcag acggcgttc ggtccggacc tattcctgct agtgcaggcc 480  
 tccaggtgac ctactcga cggaagaatc tcccagagc tgggctgttc cctctcctgc 540  
 ccggactgtg gcctcgccgg ggagagcggg cgggggagct cgcgccgagg actggaccat 600  
 ctgtacagac cagcgggagt gcgcgcgccc gcctcgaca gggccggggc tggaccaaac 660  
 cacatgaact ggactgagag ggggaagaag cggggaggaa gaaatccgc cccaaacgtc 720  
 cgctttcctt ttctctactt tgtaatttat tgatcagttt ctgttgggag acgggtgtcc 780  
 tttaccgcg ggaagggggc ggggcttccc tcccgggccc catgcgnga gargtgctc 840  
 cctccccttt ttctgccc gtcgcggggc ccaagtcttt ccttcttcgt ccgaaaggag 900  
 gggaggggga ctctgtctac aagcctcgcc ccctgtgcca ctcagtcga cccgcgngt 960  
 tccggttcgc cnggtncccc cgggttnatc tggcgggccc ggtcccnttg tgccttcccc 1020  
 ccgtgtttt 1029

<210> 285  
 <211> 1583  
 <212> DNA  
 <213> Homo sapiens

<220>



221

<221> misc feature  
<222> (1411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1531)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1557)  
<223> n equals a,t,g, or c

<400> 285  
tgtgtctgcg ttgaggggtgt tgaggggtcca cgctgtgaca agtgcacgcg aggggtactcg 60  
gggggtcttcc ctgactgcac accctgccac cagtgcctttg ctctctggga tgtgatcatt 120  
gccgagctga ccaacaggac acacagattc ctggagaaaag ccaaggcctt gaagatcagt 180  
ggtgtgatcg ggccttaccg tgagactgtg gactcgggtg agaggaaaagt cagcgagata 240  
aaagacatcc tggcgagag ccccgagca gagccactga aaaacatttg gaatctcttt 300  
gaggaagcag agaaaactgat taaagatgtt acagaaatga tggctcaagt agaagtga 360  
ttatctgaca caacttccca aagcaacagc acagccaaag aactggattc tctacagaca 420  
gaagccgaaa gcctagacaa cactgtgaaa gaacttgctg aacaactgga atttatcaaa 480  
aactcagata ttcgggggtgc cttggatagc attaccaagt atttccagat gtctcttgag 540  
gcagaggaga ggggtgaatgc ctccaccaca gaaccaaca gactgtgga gcagtcagcc 600  
ctcatgagag acagagtaga agacgtgatg atggagcgag aatcccagtt caaggaaaaa 660  
caagaggagc aggtcgcct ccttgatgaa ctggcaggca agctacaaag cctagacctt 720  
tcagcggstg ccgaaatgac ctgtggaaca ccccagggg cytcctgtty cgagaytgaa 780  
tgtggcgggc caaactgcag aactgacgaa ggagagagga agtgtggggg gcctggctgt 840  
ggtggtcttg ttactgttgc acacaacgcc tggcagaaaag ccatggactt ggaccaagat 900  
gtcttgagtg ccctggctga agtggaaacag ctctccaaga tggctctga agcaaaactg 960  
agggcagatg aggcaaaaaca aagtgcctgaa gacattctgt tgaagacaaa tgctaccaa 1020  
gaaaaaatg acaagagcaa tgaggagctg agaaatctaa tcaagcaaat cagaaacttt 1080  
ttgaccagg atagtgtg tttggacagc attgaagcag ttgctaataga agtattgaaa 1140  
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gttgaaagcc tttctcaagt agaggttatt cttcagcata gtgctgctga cattgccaga 1260  
gctgagatgt tggtagaaga agctaaaaga gcaagcaaaa gtgcaacaga tggttaaagtc 1320  
actgcagata tggtaaaagga agctctggaa gaagcagaaa agggccagggt cgcagcagag 1380  
aaggcaatta aacaagcaga tgaagacatt ncaagggaacc cagaacctgy taacttccsa 1440  
ttggagtctt kgaaacagca gctttctgga ggaaaccttg ttcaacgcgt tcccagggca 1500  
tccagcgagt ttagagagga tgtgggaaga nctttaagcg gaaagctggc ccaaaanccc 1560  
gggggaggcc gaattttttg gaa 1583

<210> 286  
<211> 1177  
<212> DNA  
<213> Homo sapiens

<400> 286  
gctcaaaatg tttaccaatg ttttaagatg tctttatcaa gcaaccgtat cagcagagaa 60  
aagayatctc aaaatgttta ccaatgtttt aagaagcttt gtgtgatatt cttccaaatg 120

```

tagttacca atataatat gtagaaaagg cttaatcata cttaatgagc aaattgaagt 180
aagcttttaa agtatatttc tcttttggtg aaaggccaat ggagacattg tgaatttaa 240
tgaacatttg cctcaagatg ttaactataa acacactgca tacaattttc ttctgaataa 300
caaatgaatg cttattgctg catgatgtaa gcaaaaagtca ttatttttcc tattcatttg 360
aaataagtta tggtttaaaa tgcttttggg gtttatttct caaaattaaa atctgggtcac 420
atgagcttta gtttgttttc tggtttaaaa aataaaaagg tttctcttaa cagtatttcc 480
agtgacaatg caaggtaagt atatcaaagg aaatcaacag ttgtgcttgg gggctttttg 540
ttatgggata ttgatttctt gtttttttcc cgtaacattg tctgctgcaa tttaataaaa 600
aattacgaca tttaagata tttcatagac aaaccaaaca aaaatatatg tttttacttt 660
aaagtgaatg ttttctctt cagctgatct aaaaatgaaa gcaaratatc ttatgtagaa 720
atattttgat aatattttta cagtgaagct tcccatgttt ttatgtctta agtttctttg 780
ctgcgtttat gtaggttgca caagaacttt tactcacttg taattgtgcc tcagactttt 840
tgaaagtcta ccttctaaat tgccccgacg atctagattc tacatgttac cattgggtta 900
ttcttggtgt tctgtatatt aaaacttttg ctgtactaag caaatgcaag gttataattt 960
agctaatagt agtttacaga caattctgat gattatgatt tcatttgggt taactaagct 1020
gtactagttc atttcataag gaaatgatac tgtagacaaa tgtaataaaa gcctgtgagt 1080
caagcatcaa gtggtgtttg ttagaaataa actagagatt tttaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa acccccgggg ggggccc 1177

```

<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

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acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctattttaaaa atacagttaa ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt ttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaattat gcaaatggtc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgtctaa aaaaaaaaaa acmactgtga tratktgagc 360

```

```

agaatggcca gtaagttaag cctttttgga tccnggtaat ccagggtatc catttaccat 420
ggaaaaggga ttcccaaac tactggccca gagggaagt tggtttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt 506

```

```

<210> 288
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (926)
<223> n equals a,t,g, or c

```

```

<400> 288
ttnggccgag cttgggtcat ggcggcgcgc ggcgcgctgc tggatgatgg cgtgagcggc 60
tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcacccgga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggatcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
gccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
cacaataaaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

```

```

<210> 289
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

```

```

<400> 289
ggcacgagct cgtgccggtt tgacctggag catgggtcct ggaccaaatt gccccgcagc 60
ctgcgcatga gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120
gccattgggg gccttggaag ccagccatgt ccttggggct ctgtggagag ctttagcctt 180

```

```

gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
ctgcaggctg ggccccggct gtttgttatt ggggggtgtg cccagggccc cagtcaa gcc 300
gtggaggcac tgtgtctgcg tgatggggtc tgaaggcttg gtgggagctg tccactggag 360
cagctcattg ccagangmrg ctatttctat ggctcctttt gctgctgagg aactcactg 420
tggctctgtg ggatgagaga ggcattgggg tgagcacttg aaacactgcc ttggggcctt 480
ggggttaggg agcctttgtc tttagtgcag gacacacata tgcttacacc tacctttatc 540
accattcgtt catgaatcat gcctagctcc atccttgccc tgggacctac taggccttcc 600
atccaactgg gaaatgggga gaagcaaagc tggcctcatg ctcttcaggg tcagttccta 660
tctggagttg accaggccta cccagttgc cattcctgaa aaatctcagc tgccaggctg 720
cctttagggt cctgttagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
gaggatgttg gaactgccag agggccggag cgcaggagtt caagtggagg aatgctggct 840
ttgagccctc tacactgctg gttgtatgac cttggacaag tcacttcacc tctctgtgcc 900
tcagatccct catctataaa tggggatctc tgaaaccttc ctaccctacc tacctcacag 960
ggctgttgtg aggacccagg gagtttgat gtggaagtaa aagtgtgct aaaacctaaa 1020
aaaaaaaaaa aaaa 1034

```

<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

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cccagtagct cgtgccgctc gtgnccgcca actctcagtt tgatcttaaa gtctgaataa 60
taaaaacaaat cccagcagta atacatttct taaacctcac agtgcagatg atatcttttc 120
attctgatcc tgtgtttgca aaaatatata catgtatata atagttcctc actttttatt 180
catttgtttt cctattacct gtagtaaata tattagttag tacatggaat ttatagcatc 240
agctaccccc aggaacagca cctgacaggc gggggatttt ttttcaagtt gttctacatt 300
tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc acactagtcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcatctaatag ttcattatca 420
tggtattgat ggacctaaaga aaataaaaaat tagactaagc ccccaaataa gctgcatgca 480
tttgtaacay gattagtaga tttgaatata tagatgtagt attttgggta tctagggtgtt 540
ttatcattat gtaaaggaat taaagtaaag gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaaata tagcaaaaat aaaaactaaa ggtagaaaag cattttagat 660
atgccttaat ttagaaactg tgccagggtg ccctcggaat agatgccagg cagagaccag 720
tgccctgggt gtgcctcctc ttgtctgccc tcatgaagaa gcttccctca cgtgatgtag 780
tgccctcgta ggtgtcatgt ggagtgtggt gaacaggcag tactgttgag aggagagcag 840
tgtgagagtt tttctgtaga agcagaactg tcagcttggt ccttgaggct tccagaacgt 900
gtcagatgga gaagtccaag tttccatgct tcaggcaact tagctgtgta cagaagcaat 960
ccagtgtggt aataaaaaagc aaggattgcc tgtataattt attataaaat aaaagggtatt 1020
ttaacaacca acaattccca acacctcaaa agcttggtgc attttttggt atttgagggtt 1080
tttatctgaa ggttaaaggc caagtgtttg gtatagaaga gcagtatgtg ttaagaaaag 1140
aaaaatattg gttcgcgtag agtgcaaatt agaactagaa agttttatac gattatcatt 1200
ttgagatgtg ttaaagttag ttttactgtg aaaaatgtatt agtgtttctg cattgccata 1260
gggcctggtt aaaactttct cttaggtttc aggaagactg tcacatacag taagcttttt 1320
tccttctgac ttataataga aaatgttttg aaagtaaaaa aaaaaaaatc taatttgga 1380
atttgacttg ttagtttctg tgtttgaaat catggttcta gaaatgtaga aattgtgtat 1440

```

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atcagatact catctaggct gtgtgaacca gccaagatg accaacaatcc ccacacctct 1500
acatctctgt cccctgtatc tcttcctttc taccactaaa gtgttccctg ctaccatcct 1560
ggcttgtcca catggtgctc tccatcttcc tccacatcat ggaccacagg tgtgcctgtc 1620
taggcctggc caccactccc aacttgacct agccacattc atctagagat ggttcctgat 1680
gctgggcaca gactgtgctc atggcaccca ttagaaatgc ctctagcatc tttgtatgca 1740
tcttgatttt taaaccaagt cattgtacag agcattcagt tttggctgtg gtaccaagag 1800
aaaaactaat caagaatata aaccacattc caggctgctg ttttctctcc atctacaggc 1860
cacactttta ctgtatttct tcatacttga aattcattct gctattttca tatcagggtta 1920
cagacttata aggggtgcatg ttctttaaag gtgcataatt attcttattc cgtttgctta 1980
tattgctaca gaatgctctg ttttgggtgt ttgagttctg cagacccaag aagcagtgtg 2040
gaaattcact gcctgggaca cagtcttata agaattgttg cagggtgactt tgtatcagat 2100
gttgctttctc ttttctctgt acacagattg agagttacca cagtggcctg tcgggtccac 2160
cctgtgggtg cagcacagct ctctgaaagc aagaaccttc ctacctattc taacgttttt 2220
gccctctaag aaaaatggcc tcaggtatgg tatagacata gcaagagggg aagggtgtc 2280
tcaactctagc aaccatccct ccattacaca cagaaagccc tcttgaagca aaagaagaag 2340
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caaaacttta agtaccctat cattaaaaat ctggttttaa aagtagctca agtaagggat 2580
gctttgtgac ccagggtttc tgaagtcaga tagccattct tacctgcccc ttactctgac 2640
ttattgggaa agggagaact gcagtggtgt ttctgttgca gtggcaaagg taacatgtca 2700
gaaaattcag agggttgcat accaataatc ctttggaac tggtatgtctt actgggtgct 2760
agaatgaaaa tgtaggtatt tattgtcaga tgatgaagtt cattgttttt ttcaaaattg 2820
gtgttgaaat atcactgtcc aatgtgttca cttatgtgaa agctaaattg aatgaggcaa 2880
aaagagcaaa tagtttgtat atttgtaata ccttttgtat ttcttacaat aaaaatattg 2940
gtagcaataa aaaataataa aaacaataac tttaaactgc tttctggaga tgaattactc 3000
tcctggctat tttctttttt actttaatgt aaaatgagta taactgtagt gagtaaaatt 3060
cattaaattc caagttttag caaaaaaaaaa a 3091

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&lt;210&gt; 291

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

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aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccgggtggc cgtgcagtgt gtggctctgc cctggcaaga agagtttgtt ctgcggttca 180
tgccggaggt ggagcgactg atgaccctg aaaagcagtc atcctgatgg ctctggctcc 240
agaggacctg agactcacac tctctgcagc ccagcctagt cagggcacag ctgccctgct 300
gccacagcaa ggaaatgtcc tgcattgggc agaggcttcc gtgtcctctc ccccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgtcctgatc cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

```

&lt;210&gt; 292

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
 <222> (447)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (468)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (475)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (479)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (482)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (489)  
 <223> n equals a,t,g, or c

<400> 292  
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 ccccgaaagcc atggcaagca agggccttgca ggacctgaag caacagggtgg agggggaccgc 120  
 ccaggaaagcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180  
 ggcgggggcag aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240  
 tgctaaccag gcctctgaca ccttctctgg gatcgggaaa aaattcggcc tcctgaaatg 300  
 acagcaggga gacttgggtc ggccctctga aatgayagca gggagacttg ggtgaccccc 360  
 cttccaggcg ccatctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420  
 tctgccccct cattaaaatt cacgttncca aaaaaaaaaa raaagggngg ccgcntagn 480  
 gntccaaagnt tagttacg 498

<210> 293  
 <211> 469  
 <212> DNA  
 <213> Homo sapiens

<400> 293  
 ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60  
 gatccaacgt cgctccagct gctcttgacg actccacaga taccgcgaag ccatggcaag 120  
 caagggccttg caggacctga agcaacaggt ggagggggacc gccagggaag ccgccatgga 180  
 ccagctggcc aagaccaccc aggaaaccat cgacaagact gctaaccagg cctctgacac 240  
 cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttgggtcg 300

227

gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360  
 agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420  
 acgttcccaa aaaaaaaaaa aaaaaaaaaa gggggggccc gtccccatt 469

<210> 294

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 294

gcacagaagg gggaggccaa agtgggtggg agcgcgtgct gttgggagtt gcttggaggt 60  
 tggcggcgcg gggctgaagg ctagcaaacc gagegatcat gtcgcacaaa caaatctact 120  
 attcggacaa atacgacgac gaggagtgtg agtatcgaca tgtcatgctg cccaaggaca 180  
 tagccaagct ggtccctaaa acccatctga tgtctgaatc tgaatggagg aatcttggcg 240  
 ttcagcagag tcagggatgg gtccattata tgatccatga accagaacct cacatcttgc 300  
 tgttccggcg cccactaccc aagaaaccaa agaaatgaag ctggcaagct acttttcagc 360  
 ctcaagcttt acacagctgt ccttacttcc taacatcttt ctgataacat tattatgttg 420  
 ccttcttgtt tctcactttg atatttaaaa gatgttcaat acactgtttg aatgtgctgg 480  
 taactgcttt gcttcttgag tagagccacc accaccatag cccagccaga tgagtgtctt 540  
 gtggaccaca gcctaagctg agtgtgancc cagaagccac gatgtgtctt gtatccagac 600  
 acacttggca gatggaggaa gcatctgatt gagacatggg gtacaggctn gnaatgcngt 660  
 ttgttttc 668

<210> 295

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 295

gctttgtcct ccagtggctg gtaggcagtg gctgggaggc agcggcccaa ttagtgtcgt 60  
 gcggcccgct gcgaggcgag gtccggggag cgagcgagca agcaaggcgg gaggggtggc 120

```
cgagagctgcg gcggtcgga caggaggagg agcccgggcg ggcgaggggc ggccggagag 180
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gcgctagccg tggcaggagc agcccgcacg ccgctctctc tccctgggag acctgcagtt 300
tgcaatatga ctttgaggga attctcggct ggagagcaga agaccgaaag gatggataag 360
gtgggggatg ccctggagga agtgctcagc aaagccctga gtcagcgcac gatcactgtc 420
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caggcgtttt gctgcgagaa cgacatcaac atcctgcgag tcacaacccg ggccggctgg 600
cggaatcctg ctcttgagga ccgacgctgg ccccgcgggc agcgagggcg ccgagcagcc 660
cccggacctg cactgcgtgt ggtgacgaat ccacattcat ctcaatggaa ggatcctgcc 720
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tataaattct actaagttat ttatgacat gaaaagttaa ttatgctata aattttttga 1320
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gctcgcgatc tagaaactag                                     1400
```

<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

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gggcccggcg cgggtgtgga gcggcgcgtc atgtacacca tcaccaaggg gcccagcaag 180
ctggtcgcgc agcgccgcac aggtcccacg cagcagcagg tggagggccg gctcggcgag 240
ctcctgaaat gccggcagcc cgcgcgcccg acctcgagc ccccgcgggc gcagccyttt 300
gcgcascgcc gggaccctgg cccctgtcga gtccagggcc aaggcttgtg ttcaatcgtg 360
tgaatggccg gcggggcccc tccacgtccc catccttcga ggggaccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
agctggatgg tggcccagcc ggtgaggggc ggccaaggcc tgtgcagtac gtggagagga 540
cccccaatcc ccggctgcag aactttgtgc ccattgacct agacgagtgg tgggcgcanc 600
agttcctggc gagaatcacc agctgttcct agtggctgct gggagggggc gctgctacac 660
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tgccggccac acctgaagtg ccagcatttg gacttttgca ccttttttcc ccttggcccg 780
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tgtgtcccag gaccagcna caccctggg gctggcaggg aggagctcca ggctaataaa 900
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```

<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

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caaaagctgg agctccaccg cggtagcgn cgtctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagctc gtgccngncc tttggagcag agaggaggca atggccacca 120
tggagaacaa ggtgatctgc gccctggtcc tgggtgccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg ccccccgtga aagacagaat tgtggttttc 240
ctggtgtcac gccctcccag tgtgcaaata agggctgctg ttctgacgac accgttcgtg 300
```

```

gggtccccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtgtgaat 360
tttagacact tctgcagga tctgcctgca tcctgacgcg gtgccgtccc cagcacggtg 420
attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480
tgcttcggct cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaagggcg gccgtctaag 600
aggatccaag cttacgtaac gcgtgcatgc gaaggcata gctcttctat agtgtca 657

```

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

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gcagccaggc tctcagggaa ggtccatgct gcttggcctg agttcaaggc tttctgctg 60
tagcctggac tcccgtggac ccccggtggc aggtggcttc cccgtggcat ctccacaccg 120
cctctgctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc caccctgagc 180
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatccccc ctcctctgag 240
agcagtggc acagcggccg gccgctctgc tgagaaggca gagaggcagg ctcaggcctc 300
agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggcccctt cagaattcct 360
caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca gttgagggga 420
cttagtctca atcccaggct cctcttgact ctgggcagct ttaatcaggt tgggcagcct 480
ctgctacagc gtggagtggg atggctctct tccctcagcc acgccgcttg tgaggacaga 540
ggtgggggag tgggaagtgg gaagtcacca gagaacagga gagggatttg agggcgcgac 600
cccagcgctc tccacggacc agccagaggg actggagcca ggtgtgcatg ggttcaaggc 660
cctggccctg cccagcctct gtcttgggag ctcagcccca gggttcggtc gtcagcagtt 720
tcccaagaac aagatgtgat ggcatctgct gctgaaaccc tgatgaggac caggccccct 780
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaaa aaaaaaaaaa 840
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tc 892

```

<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

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cccggtctgc aggaattcgg cagcagagag gaggtcccaac aggtcctctg cctggrectac 60

```

```

cgagtcccc gatggtggtta tacattaaat atccaggatg gagaagccac atgctactca 120
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gctttcgatt gattggaagg aggtcgggtg aatgcctgcc aagccgtcgt tggctcgaa 240
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cctgcacaaa tggagtgtt cttgactctc gctgtgacta cagctgttcc agtggctacc 360
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cagagccaga gaaattgact gctcgagtat actgggaccc accgttggtg aaagattctg 540
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aaggagagca tgtgattcgt tacactgcct atgaccgagc ctacaaccgg gccagctgca 660
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acaggccttg ggcagtgggt tgggggtaga agttcttct ttcctaacc gggccctgc 1560
ccagctctcc aaagtcttcc agaaaagtaa atcctaaatt cagtgatgaa aaaaaaaaa 1620
nann 1624

```

<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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ttaatttagg tgnacactat agaagggtac gcctgcagggt taccggatcc ggaattccc 60
ggatccggag ccgcccgaag ccggtgccgc agccccctgc gccccgggtg ccccgacat 120
gtccttcgc aaagtgggtc ggagagcaa attccggcat gtgttcgggc agccggtcaa 180
gaacgaccag tgctatgagg acattcgct gtcccggtgt acctgggaca gcaccttctg 240
cgccgtcaac cccaagttcc tggcgggtgat tgtggaggcc agtggagggg gtgcctttct 300
ggtgctcccc ctaagcaaga cgggccgcat tgacaaggcc taccgacgg tgtgtgggca 360
cacgggacct gtcctggaca tcgactggtg tcctcacaac gacgaatcat agccagcggy 420
tcggaggact gcacggcat ggtgtgagc atcccagaga acgggctgac ctccccgctg 480
acagagccgg tgggtgtact ggaggggcac accaagcgag tgggcatcat cgcctggcac 540
cccacggccc gaaacgtgct gctcagtga ggctgcgaca acgtgggtact catctggaat 600
gtgggcacag cgaggagct gtaccgctg gacagcctgc accctgacct catctacaat 660
gtcagctgga accacaatgg cagcctgttt tgctcagcat gcaaggacaa gagcgtgcgc 720

```

```

atcatcgacc cccgtcgggg caccctgggt gcagagcggg agaaggctca tgagggggcc 780
cggcccatgc gggccatctt cctggcagat ggcaagggtg tcaccacagg cttcagccga 840
atgagcgagc ggcagctggc gctctgggac ccagaaaacc tcgaggaacc catggccctg 900
caggaactgg actcgagcaa cggggccctg ctgcccttct acgaccccg caccagtgtg 960
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gacctctgag ggacctctc cccgacct gccagccct ctgtccctc ccagaggag 1860
gcgggagggt gggctctata ttttcattcc aaataaaatt ctctttctaa aaaaaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacgga cgtcgtggg 1969

```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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ggagctctcg gcctcggctt tngacgacgg caacttctcg ctgctcatcc gcgcgggtgga 60
ggagacggac gcggggctgt acacctgcaa cctgcacat cactactgcc acctctacga 120
gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180

```

```

ggcgagaagg aggtgctggc ggtggcgcgcg ggcacccgct ytnctgacct gcgtgaaccg 240
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gcagccgccc ggggtcccgcg acgaccgcgcg ggaccgcctg ctggacctct acgcgtcggc 360
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taagcgcggt gacttctcac tgcgtatcga gccgctggag gtcgcccagc agggcaccta 480
ctcctgccac ctgcaccacc attactggcg cgcggccaca acgtcatcaa tgtcatcgtc 540
cccagagacc gagcccactt cttccagcag ctgggctacg tgctggccac gctgctgctc 600
ttcatcctgc tactggtcac tgtcctcctg gccgcccgca ggccgcggag gctacgaata 660
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ctggtggacc tgccaccatc acaataaagt ccccatctga tttttaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaana aaaaaaatg 1860
ggaataaaaa taacaaaaaa at 1882

```

&lt;210&gt; 302

&lt;211&gt; 2804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

```

gattccaacg catcccagtc cctgtgtgac atcatccgcc tgagccggga gcagatgac 60
caagtccagg acagcccaga gcctgaccaa ctgctggcca ccctggagaa gcaggagacg 120
attgagcagc tcttaagcaa catgttcgag ggggagcaga gccagtctgt catcgtcagt 180
gggatccagg tgctgctgac mctgctggag cccaggaggc cgagggtccga gtccgtgacc 240
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aaagcactgt gtccagtgtg ggcgccttgc acgccctacg cccgcggctc agctgcttcc 360
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```

```

ccccctggcgg agaccaacaa gaagaacatg gtggacctgg tgaacaccca ccacctacac 960
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cagtttacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacc 2804

```

<210> 303

<211> 3859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<400> 303

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<210> 304

<211> 3378

<212> DNA

<213> Homo sapiens

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<222> (1350)

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<222> (3361)

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<220>

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<222> (3365)

<223> n equals a,t,g, or c

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 <211> 1014  
 <212> DNA  
 <213> Homo sapiens

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 <211> 2127  
 <212> DNA  
 <213> Homo sapiens

<400> 306  
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<211> 666

<212> DNA

<213> Homo sapiens

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<222> (588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (664)

<223> n equals a,t,g, or c

<400> 307

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<212> DNA

<213> Homo sapiens

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<222> (2162)  
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<222> (2166)  
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<220>  
<221> misc feature  
<222> (2168)  
<223> n equals a,t,g, or c

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<210> 309

<211> 6163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6158)

<223> n equals a,t,g, or c

<400> 309

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&lt;210&gt; 310

&lt;211&gt; 2086

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1763)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1769)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 310

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&lt;210&gt; 311

&lt;211&gt; 2163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

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aaa 2163

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&lt;210&gt; 312

&lt;211&gt; 1397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1397)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 312

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aaaaaaaaa aaaaaan

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1397

&lt;210&gt; 313

&lt;211&gt; 4106

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (344)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 313

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atgagaagaa caagaacaaa gagggagatg ataagaaaga gggaggtaaa gacagagctt 1800
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```

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```

<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 314

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ccatgcccaa gtgtcccaag tgcaacaagg aggtgtactt cgccgagagg gtgacctctc 180
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ggtggtggag accccatcct tggctgcttg cagggccact gtccaggcaa atgccaggcc 420
ttgtccccag atgcccaggg ctcccttggt gccctaatg ctctcagtaa acctgaacac 480
ttggaaaaaa aaaaaanngg gnggcgtttt aaagattcct cgangggggc aa 532
```

<210> 315

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1455)

<223> n equals a,t,g, or c

<400> 315

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gcggctgcgg gcagccgagg cgcccgaggc ggccggcgcg gcggcgggcg ccggcagcgg 180
gaaactggag gagcggtctt actcgggtct gtgtgcacc gtgtcctgga cctgccccaa 240
gcctccgtgt accagtgtac taatggtcac ttgatgtgcg ctggctgttt tatccacctt 300
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gagtgtggct tctgcctgcg ccagtttccc cgctccctcc tggagaggca ccagaaagag 480
gaatgccacg gacagggtaa cccagtcaa gtacaaacgc atcggtgcc catggcacgg 540
ccccttccat gagctgacgg tgcacgaggc tgcgtgcgcc cccccacca agacaggcag 600
tgagctgatg gagatcctgg atgggatgga ccagagccac cgcaaggaga tgcagctgta 660
```

```

caacagcatc ttcagcctgc tcagcttcga gaagattggc tacacagagg tccagttccg 720
gccgtaccgc acagacgact tcatacgcgc cctgtactat gagacgcca ggttcacagt 780
gctgaaccag acgtgggtcc tgaaggctcg agtcaacgac tcggagcgta accccaacct 840
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agggtctcag aggcatttcc ggaaagcagg gtgaaattgt ctcttcccag gaaaaagatt 1860
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cgcatctag aactagtc                                     1938

```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

```

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cccccgccgc gattgacatg atgtttccac aaagcaggca ttcgggctcc tcgcacctac 120
cccagcaact caaattcacc acctcggact cctgcgaccg catcaaagac gaatttcagc 180
tactgcaagc tcagtaccac agcctcaagc tcgaatgtga caagttggcc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgacaaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtctgcccct 360
acctctccca agagcaccag cagcaggtct tgggagccat tgagagggcc aagcaggtca 420

```

```

ccgctcccg gctgaactct atcatccgac agcagctcca agcccaccag ctgtcccagc 480
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cgggcgtcag cgaggcacc ggcctcctct cgctgtccgc gctgggttcc caggcccacc 600
tctccaagga agacaagaac gggcacgatg gtgacacca ccaggaggat gatggcgaga 660
agtcggatta gcagggggcc gggacagga ggttgggarg ggggacarag gggagacaga 720
ggcacggaga gaaaggaatg tttagcaca gacacagcgg agctcgggat tggctaaayt 780
ccatagtatt atgktggccc gggggggggc ccancan 818

```

&lt;210&gt; 317

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

```

gggcacgagc gacatggagc tgttctctgc gggccgccc gtgctggtea ccggggcagg 60
caaaggtata gggcgccgca cggtccaggc gctgcacgcg acgggcgcgc ggggtggtggc 120
tgtgagccgg actcaggcgg atcttgacag ccttgtccgc gactgcccgg ggatagaacc 180
cgtgtgcgtg gacctgggtg actgggagc caccgagcgg gcgctgggca gcgtggggccc 240
cgtggacctg ctggtgaaca acgcccgtgt cgccctgctg cagcccttcc tggaggtcac 300
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ccagtgtctc cagcgggcag taactaacca tagcgtctac tgctccacca aggggtgccct 480
ggacatgctg accaaggtga tggccctaga gctcggggcc cacaagatcc gactgaatgc 540
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ggccaagact atgctgaacc gaatccact tggcaagttt gctgaggtag agcacgtggt 660
gaacgccatc ctctttctgc tgagtgaccg aagtggcatg accacgggtt ccactttgcc 720
gggtggaagg ggcttctggg cctgctgagc tccctccaca cacctcaagc cccatgccgt 780
gctcatccta ccccaatcc ctccaataaa cctgattctg ctgccccaaa aaaacga 837

```

&lt;210&gt; 318

&lt;211&gt; 1448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (878)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1198)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<400> 318

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ctgcaggcag gttgttggtt ttcgaggcca acggggccaa cgggtctaaa gcaggtaggg 180
gcggctgtga agtgaggggg tctaggggag aaaaggggac ggagagcaga ggaaggggtg 240
ttctttgat tcaccatttt accccagccc agaaacaaca aacacccac ttcctgatct 300
cctgaggcgg aaccagtgtc tgggtggcaac gtgttcattg ctgaagcagc ataacaaaga 360
atgagtcaga ctgggctgat acgctctgaa cacgggggtt tcctttccca gcacattctt 420
ggatgggagc atgagggcac cagtcacctt twaacctatt gggggacatt agcagtcaca 480
tggtgagtg aaacgaggtc cttttgtgca tgtktaaaa caggcagtta caagcgtgtc 540
attttcagt gctccatttt aaatcagtct gctgcctcag aatcccgtac gcctgaagg 600
tttaagttgc atgtgcacct gaaactcgta tatgagtatt ttctgtctgt gcttttagag 660
aggaggaatt ctgtaacgac ttttgtttcg ggtaggaag agaattgatct ctttcagtgc 720
accgccactt atgttacctt tttcctttta tttctttgtg tttccagttg caagaacagc 780
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aagataaaca gagggagtag tgagaggctt ttccagtggt gaaaatgcct ctgtgggtca 1380
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aaacntgg                                     1448
```

<210> 319

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 319

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taacttctcg ctgactgctt cacctcttac aagtctgcc atcccgaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagt ccacagaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagagggaa aggaacgaag 420
gggcacattt aatttcggag tccctgaagt tcagagaaaa aacaaacat tgatcactta 480
tgtgggggat tccgttgtct tgggtgtgta atgccgacac tgtgctcctt taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600
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```

tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaaagtgt 720
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cagcagtagt tttgcaataa tacctgctat ctcagatcca aagatatatt ttccttctgt 1140
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atatattgtaa taattttcat gtaatgkta cctctgtgta tattggataa aaacatcttt 1440
attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc 1493

```

&lt;210&gt; 320

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

```

ggcacgagtg gcttctgacc ctttcttcg ccaactaccgc cagctcaatg agaagctagt 60
gcagctcctc gaagactata gccttgctc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtcctgc aggtgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
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gccatgcagc tgtagcaaca aggtggaccc tggagagcag gatgcataat ccagcactgg 360
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tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaa gagaacaccc cccatactgt cagtgggtgc cgtgagctct ggccctgcca 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct 609

```

&lt;210&gt; 321

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (458)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 321

```

tagtgatcc cccgggctgc aggaattcgg cacgagcaga gcttcgctct tgetgctccc 60
ctgaggtgaa ctgaagccag cagccccgca tcatgtcaaa gctcggccgg gccgcccggg 120
gcctcaggaa gcccgaggtc ggcgggtgtra tccgggcgat cgtgcgggca ggcctggcca 180
tgccccggcc cccactaggc ccagtgtctg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaaggaagg cattcctctg cctaccaaga 300
ttttagttaa gcctgacagg acatttgaaa ttaagattgg acagcccact gtttcctact 360

```



```

tcctgaaggc agcagctggg attgaaaagg gggcccgga aacagggaag gaggtggcag 420
gcctggtgac cttgaagcat gtgtatgaga ttgcccgat caaagctcag gatgaggcat 480
ttgcctgcag gatgtacccc tg                                     502

```

<210> 322

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<400> 322

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<210> 323

<211> 1874

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1735)

<223> n equals a,t,g, or c

<400> 323

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tgccttcaat cagtgttcat atttatagcc aagtgccttc tcactctgtg gacagaatcg 1800
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cacctcagcc ctaa 1874

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<210> 324

<211> 2325

<212> DNA

<213> Homo sapiens

<400> 324

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acagttttat acattttgag ttgttcataa agtttgtctt gtgatatgct tggcacttaa 180
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ttcaaatcaa acggcagttt tctttctaag taaatgattt ccagtcactt aaaagggtggg 300
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atgattaaac atgsagtggc tcctctctga tttaattatt tgcaggtcat tgtaacctgc 480
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cccagataca ctatatattt gttcaagggt aaatctataa aatgtatata ctttattttg 720
tggttttgct atttataaat ttaattgttt aactgttgct catttatggt ttgttttggg 780
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2325

<210> 325

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 325

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ttgacttaag atccacacac tcacaaacct acagcccaga aaccagaagc ccctatagag 720
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aaaaa
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785

<210> 326

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 326

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gacgacagaa gggtagcggt gcgagaagac kacagaaggg tacggctgag agaagackac 180
agaaggggtac ggctgcgaga agacgacaga aggtacgggt gcgagaagac gacagagggg 240
acgn
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244

<210> 327

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 327

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&lt;210&gt; 328

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; n equals a,t,g, or c

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gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtgggtggtg cgcgcctgtn 300  
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tgcattnngc tgggattcaa accatgttac tccntgacca ngtnngncct ntttcaaann 420  
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ttagttgcac tagccatatt tcaaatactt gatggataca tgtggctagt ggctaacata 180
agggatagca cagatataaa acatttcctc ccaaagtgtc gggattacag gcatgagcca 240
ccgcgccccg cctatcatat gaattttgag ggaacacaat catgcagtct gtagcagatg 300
gtaataggct gatataattac acttggtgat gtaanctgga tangtttctt tcttctccaa 360
ggacagcttt ttnaatattt aacantncca ttaatttttc agtttccggg agaattttat 420
aatttaaaat tgccgactta ngganaancc aattggncca accattacaa tanattttta 480
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ctggncagac accgntgnaa cgggnattat ttcaccctca gagagaggct gatcactatg 180  
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgcaga ttagagttgc 240

ccatatacgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300  
gagntnttaaa tgccttaaag taattaaaan ccgggggcaat nccnttttac ggatgttttg 360  
ctgggggtttc cgtttttaac caacattttt ntnggggncc gnccacaaat tttgggggttg 420  
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aatgtngcca ntgtctgtct gcagattggc taccctaactg ttgcatcagt accccattct 180  
atcatcaacg ggtacnaacg antcctggcc ttgtctgtgg agacggatta caccttcca 240  
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tggctgctgc caccacaact gctcctgctg ctgctgcnc ccancttaag ttnaaaccca 360  
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tcacggccac cgtcatcctt gtctcgcccg ggggaagccta cctggtgtac acagaccggc 240
tctattctcg ctcggacttc aacaactacg tggctgctgt atacaagggtg ctggggactt 300
cctggttggg gctgccgtga gccagtctct gacagacctg gccaaagtaca tgattgggcg 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cggtcaatgc tcgtnatgtg 420
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catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatattt cctcattcat 180  
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cccgaagcg gaagtggaag aaagtcttag tggcttgaga ttaagcctga tcaagatgac 180
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caattcactg gccgtcgttt tacaacgctg tgacnnggaa aacntnnaat ncttccggct 180  
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cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaatactct gtctggatcg 180
gtggetccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacgggtgaag ccgggccttc cattgtccac cgcaaagtct ttcttaaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattggtt aaaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
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<210> 338

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

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<222> (508)

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<220>

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<222> (509)

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<220>

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<222> (513)

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<220>

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<222> (537)

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<221> misc feature

<222> (565)

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<220>

<221> misc feature

<222> (597)

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<220>

<221> misc feature

<222> (599)

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<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 338

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gcggaacttg ctactaccag caccatgccc taccaatatc cagcactgac cccggagcag 60
aagaaggagc tgtctgacat cgctcaccgc atcgtggcac ctggcaaggc catcctggct 120
gcagatgagt cactgggag cattgccaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcattgggg gtgtcatcct cttccatgag acactctacc agaaggcgga tgatgggcgt 300
cccttccccc aagttatcaa atccaagggc ggtgttgttg gcatcaaggt agacaagggc 360
gtggtccccc tggcagggac aaatggcgag actaccacc aagggttgga tgggctgtct 420
gagcgctgtg ccagttacaa ngaaggacgg agctgacttc ggccaagtgg cgttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcacatc tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcancagaa tgcattgggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa 623
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<210> 339

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

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<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<222> (210)  
<223> n equals a,t,g, or c

<220>  
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<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<400> 339  
tcgacccacg cgtccgcttc aacatgattt gtcacaatct tatcaataat cattactctg 60  
ttttttatat ttcaactaaa agtatcanaa tatagctttc cagaaaaccc cgaaccaaag 120  
tcactgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctattt 180  
tcctcattca ttaccccaac aataataggn ctccctatcg taattattat cactatgttt 240  
ccaagcatta tattcccatc acctaccgga ctaatcaata atcgactcat ctccattnca 300  
acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

<210> 340  
<211> 345  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
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<222> (88)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (90)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (128)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (138)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (146)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
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<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (296)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (339)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (345)  
<223> n equals a,t,g, or c

<400> 340  
agacangctc tantacgact cactataggg naaagctggt acgcctgcag gtaccgggtcc 60  
ggaattcccg ggtcgaccca cgcgtccngn aggaggggac agctgcgggc gcggggaggg 120  
ggcgccgngc cgcgnggngc catggnggac agnagagccg ggagtccgag annccgggcc 180  
gcagcccag atgtcgccgc catggettcg ccgcagctct gccgcgcgct ggtgtcggcg 240  
caatgggtgg cggaagcgct gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300  
acgcctcctg gtnacctggc cggaagctgg ggggcgcgna cgncn 345

<210> 341  
<211> 170  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 341

acccacgcgt ccgccacgn tcncgactag ttctagatcg cgnacggccg ctctagagga 60  
tccaagctta cttggacatg catgcnacgt catagctctt ctatagtgtc acctaaattc 120  
aattcactgg cgcgcgtttt acaacgtcgt gactgggaan atnntaaaaan 170

<210> 342

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<400> 342  
aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg catgacagta 60  
agagaattat gcagtgtctg cataaccatg agtgataaca ctgcggccaa cttacttctg 120  
acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180  
actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240  
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaactggc ggactactta 300  
ctctagcttc ccggcaacaa tttatagnct tggtggnngc gggtaaagtt ncaaggccca 360  
tttttnggtt tggccttcg gttngtt 387

<210> 343  
<211> 186  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (26)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (152)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<400> 343  
gctgcaggaa attaacagag tctacnagga aatgtacaag actgatctgg agaaagacat 60  
tatntcggac ncatctggtg acttccgcaa gctgatgggt gccctggcna aagggttaaaa 120  
aacagaagaa tgggccgtcc ttgaatatga anngaatan ccacatgccc ggatttcctt 180  
ganccc 186

<210> 344  
<211> 611  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaagga acaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtgatc ccccgggctg caggaattcg gcacgagctg cggtgggctc 120
cgggaagccg ttcgggctgg ggctgtcggc cgcggggcgg aggcactcgc gcgggggatg 180
gcccactgcg tgaccttggg tcagctgtcc atttctgtg accatctcat tgacaaggac 240
atcggtccca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gctgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgttcccta 480
ggacagattg tgctccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tggaggtaga g. 611
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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

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tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaat aaagtactat aaaggattgg gtactagtac agctaaagaa gcaaaggaaat 120
attttgctga tatggaaagg catcgcatct tgtttagata tgctggtcct gaagatgatg 180
```

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggttaacaa 240  
at tt t t a t g g a a g a c c g g a g a c a g c g t a g c t a c a t g g c t t a c c a g a g g a n t g a t t c n c t c t 300  
c a a c t c a g a c a t g a a a g a t c t a t a c c a c n c n t g t t g a t g g c n t t 344

<210> 346

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 346

g g a a a a g c c c a a g g a a a a g c a a a g a a t a g c a a a a a a a g g g g c c a a g a a g g a a g t g g t 60  
t g g g a t t g g t c t t c t t t t t c t t c a g t g a g t t t t t c c c c a a c a g g t t c t g a t g g t c c t t 120  
t g g c t a c c a g c a a a c c a g t c c c t g c a g a a a g t c a g g t c t t c c a g t g g g t c c t g a g a a c g 180  
g a g t a g a a c t t t c c a a g a g g a g c t g a t c c g c a g g a a g c g c g a g g a g t t c a t t c a g a a g c 240  
a t g g g a g g g g t a t g g a g a a g t c c a a c a a g t c c a c g a a g t c a g a t g c t c c a a g g a g a a g g 300  
g c a a a a a a g c a c c c c g g g t g t g g a a c t g g g t g g c t g t g c t a a c a a a g a a a t g t t g g a t t 360  
a c a g t a c t t c c a c c a c c a a t g g a a c c c t g a n g c t t g c c t g t c t g a g g a c a t t a a c c t t 420  
g a t t c c a a g g g a c t g g g g g c a c t t n n g g a t c t g g a c t g c a c a c t n t g a t g a c n 480  
a a g g g c t t g t t a a a n t t t c c a a a c t a 506

<210> 347

289

<211> 444  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 347  
cggaaggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60  
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120  
tactttaaat accattactg cagccacacg ccttgagggt gaagtgtcct gcttagtagc 180  
tggaaccaa tgtgacaagg tggcacaaga tctctgtaaa gtagcaggca tagcaaaagt 240  
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300  
tttggcaact cagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360  
aaagaacctt ttgccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420  
tgcaatcaag tcacctgaca catt 444

<210> 348  
<211> 358  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (187)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 348

ggcagagaag cagaagcgnc tcagttagag tccagcaaaa ggtttgccaa anagtttatg 60  
gacagacatg gaatcccaac cgcacaatgg gaaggcttcc accaaacctg aaaggaagcc 120  
tgcagcttca ttttgagtgc agacttcctt gctttggttg tgaaaggcca gtggtcttgc 180  
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcctgcaag ctgtacaaga 240  
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300  
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358

<210> 349

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (301)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 349  
ggcgctttgc tctgtccacc aagattcctg acaccaaagg ctgcttgacg tgcgtgtgg 60  
tgcggaaccc ctacacgggt gccaccttcc tgctggccgc cctgcccacc agcctgctcc 120  
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180  
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240  
gtttttttgg ggccgaaggg cctaaagggc ccggttgccg gttcctgttc caanncctgc 300  
ncctgggagg ttggcnttaa g 321

<210> 350  
<211> 742  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (618)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (653)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (658)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (683)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (689)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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ggtcacgctg acccagtgct cggaaaagct ggtgcagctc atcctgcacg aatacaagat 60
cttcaatgca gaagtgcttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaac acccaacagt gtgggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccggaaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttccgccc acctgctcgt ctcccttggg aggtggtccc actgggacac acaaacaccc 540
aaacagaaaa atacaaatac acgtacccca agaagggggc cctcaagtct ctgctattta 600
cagaagtttc ttcagtangc agaccaaaaa tgtgttgggc aaaagggtc ggntggangc 660
atthtccata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac 742

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<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 351

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gggctgacgt ttaaccagac cagcgagtca ctcagcgac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtgtggcgc gtttctnctc tgcattccggc 180
gtggaggtgg acaaggctgt tgaagccttc gaggggggccc cgtacccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272
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<210> 352

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 352

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gcggggcccc agctgggacc ccttcgcga ctggtaccgc catagccgcc tcttcgacca 120
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ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180  
gccaggctac gtgcgcccc tgccccccgc cgcacgcaga gccccgcagt ggccgngccc 240  
gctacagncg nncgct 256

<210> 353  
<211> 592  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (54)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (545)  
<223> n equals a,t,g, or c

<400> 353  
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acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatctt taagaaccgt aatactcacc gcaagggtct gcaacttcac tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaaag cagtgcagact attgccaaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggtcc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggncctct ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttggccc cc 592

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&lt;210&gt; 354

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (223)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (225)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 354

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cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tccccggggc tgcaggaatt cggcacgagt cgtctcaggc tcgtagtctg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ctttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttcccgcctg gcgcattaca acaagcgctc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagttggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaattt 539

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&lt;210&gt; 355

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (296)

&lt;223&gt; n equals a,t,g, or c

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<222> (299)  
<223> n equals a,t,g, or c

<220>  
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<222> (396)  
<223> n equals a,t,g, or c

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<222> (419)  
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<220>  
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<222> (424)  
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<400> 355  
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atgaggacac actctctgtg gcactgccat atttctggga gcactttgat aaggacggct 120  
ggtcctctgtg gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcattgagct 180  
gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240  
gtgtcatcct ttttgaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300  
gccaggagct tgcctttccg ctgagtcag attggcaagt ggactacgaa gtcatacaca 360  
tggcggaac tggaatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420  
nngngagggg gcctt 435

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<211> 502  
<212> DNA  
<213> Homo sapiens

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<222> (168)  
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<220>  
<221> misc feature  
<222> (239)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (243)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
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<222> (292)  
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<220>  
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<220>  
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<222> (316)  
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<220>  
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<222> (317)  
<223> n equals a,t,g, or c

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<222> (324)  
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<222> (339)  
<223> n equals a,t,g, or c

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<222> (348)  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (426)

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<222> (430)

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<222> (437)

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<222> (440)

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<220>

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<222> (457)  
<223> n equals a,t,g, or c

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<222> (458)  
<223> n equals a,t,g, or c

<220>  
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<222> (459)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (476)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (478)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c



301

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (497)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (499)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 356

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gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttggtg ggaagcccg 120
gaaccccggtg gaacagagggc agcgcacatcat cggaggggcaa aaagccangg ggatagtggg 180
ggcggtttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcggtgnc 240
ctngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300
tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360
tcenaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420
accnncagn gtctctnttn anatnctnc tngcacnna ncccacaacc ccccnncnc 480
ccccncccc ccccnncnc cc 502
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&lt;210&gt; 357

&lt;211&gt; 440

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (236)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (262)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (293)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (300)

&lt;223&gt; n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (339)  
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<223> n equals a,t,g, or c

<220>  
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<222> (362)  
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<220>  
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<222> (378)  
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<220>  
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<222> (387)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (389)  
<223> n equals a,t,g, or c

<220>  
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<222> (402)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 357

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ctgttcaggc cggagccaca gaccgccgtt gaatgggcgg atgctaatta ctatctccc 120
aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtttg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataagc agnggaacan 300
ccttatttgg ttccncagg atggtggatg cccgagaant ttttgaaaaa cccacgttgn 360
gncgattatt tcgggganat ttccgngnt gttggggttt gnccccntgg gttttggnaa 420
aaaganccgg gtaaaaggtt 440
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<210> 358

<211> 234

<212> DNA

<213> Homo sapiens

<220>

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<222> (16)

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<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

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<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 358

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ggaaaagggtg tttatncctc atggactaat tatggacagg actgancgtt ttgctcgaaa 60
tgtgatgaag gagatgggag gccatcacat tntagtcctc tttttgctca aggggggcta 120
taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatttttngc agatctgaag agctattgtn atga      234
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<210> 359

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

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<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (559)  
<223> n equals a,t,g, or c

<220>  
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<222> (579)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (588)  
<223> n equals a,t,g, or c

<220>  
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<222> (593)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (659)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (667)  
<223> n equals a,t,g, or c

<400> 359  
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aagctgggtac gcctgcaggt accggtccgg aattcccggg tcgaccacag cgtccgggggt 120  
gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180  
tacaggggaag atggaagtgg tgggtgcatgg acgactgacc acaatcaact gtgaggaaagg 240  
agataaaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagtt 300  
gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360  
actcaatcct gattcaagta tggaacttc accagacttt ttcttctaaa atctggatgt 420  
cattgacgat aatgtttatg gagataaggt ctaagtgcct aaaaaaatgt acatatacct 480  
ggttgaaata caacactata catacacacc ancatatata ctagcttggt aatcctatgg 540  
aaatggggta tntggagnnc ttttttaatt ttcatagnt ttttttnat aanaatggca 600  
tattttggat ctacaacttc tatgatttga aaaaatacct taacccttat cttttttgng 660  
aaaaaana 668

<210> 360  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 360  
caccattacc agcggcggca atcctccggc cttttccctg acaccggacg gaaagctgac 60  
cgctaaaaat gcgatatca gtggcagtgt gaatgcgaac tccgggacgc tcagtaatgt 120  
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180  
cattgtaaag gcggcgagcg cggcttttcc gcgccagggtg gaaagcagtg tggactggcc 240  
gtcagggtacc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300  
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360  
gtgttatctg aaagtactga tgaacgggtc ggtgatttat g 401

<210> 361  
<211> 273  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (189)  
<223> n equals a,t,g, or c

<220>  
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<222> (236)  
<223> n equals a,t,g, or c

<400> 361  
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tgagccgtaa ttatcatctg cgcgggcgta ttctgcagggt gccgtcgaac tataaccgcg 120  
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180  
tggcctggng tctgtgggat atgctgaccc atccgcgcta cggcatgggg aaacgncttg 240  
gtgcggcgga tgtggataaa tgggcgctgt atg 273

<210> 362  
<211> 248  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
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<222> (52)  
<223> n equals a,t,g, or c

<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (145)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (161)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (185)  
<223> n equals a,t,g, or c

<220>  
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<222> (194)  
<223> n equals a,t,g, or c

<220>  
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<222> (210)  
<223> n equals a,t,g, or c

<220>  
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<222> (218)  
<223> n equals a,t,g, or c

<400> 362  
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cgaatcccát ctncgcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120  
cagactggag gagttttcga aagantggaa ggatgccagt nataagtgga atgccatgtg 180  
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

&lt;210&gt; 363

&lt;211&gt; 149

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (131)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (137)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (145)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 363

tgccggactt tcacgtgag gatgactggt ggcgtaacgg ccagaatctc tatctggata 60  
atctggaggc gacggggctg tatcaggtgc cgttgtcagc ggcacagccg ggcgatgtgc 120  
tgctgtgctg ntttgntca tcannngcg 149

&lt;210&gt; 364

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (93)

&lt;223&gt; n equals a,t,g, or c



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<220>  
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<223> n equals a,t,g, or c

<400> 364  
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tgctctggtt ctcattgacg cagatgcagc gangaggctc aatgttacac cactggcaag 120  
aatagtagca ttgctgacg ctgctgtaga acctattgat tttccaattg ctcctgtata 180  
tgctgcatct atggtncctta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240  
agtaaatgga agccttttagt ctggttgtag tagcaaacat taaaaatgtt ggagattgga 300  
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365  
<211> 272  
<212> DNA  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<222> (145)  
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<222> (190)  
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<220>  
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<223> n equals a,t,g, or c

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<220>

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<222> (260)

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<400> 365

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aggaaaaagc cccgcctcct ggtggggcag tgccggncac ancntgntgc cctgcagagg 60
ggcttgtgcc gctgctggan tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggacatg ggaccaaagc cggaacctcc tgctcaacgg 180
gaagtcctan cccaccaaag tgcgcctgat ctgggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272
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<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

<220>

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<222> (192)

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<220>

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<222> (208)

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<220>

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<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 366

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ggctctacta ggactcacta tanggaaagc tggtagcct gcaggtagcg gtccggaatt 60
cccgggtcga cccacgcgtc cgcttctctg cctagaaggg ataatttat cactcttcgt 120
tataataaca atcaccatct taattaacca ccttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnc actggggctt atccctttta gttatnatct 240
caantacata cgga 254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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gattggattc gacaacaaaa aagacctgct tatctcgggtg ggcgatttgg ttgatcgtgg 60
tgcagagaac gttgaatgcc tggaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaaccatgag caaatgatga ttgatggctt atcagagcgt ggaaacgtta atcactggct 180
gctta 185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

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<220>

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<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (193)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (404)  
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<220>

<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
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<222> (433)  
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<400> 368  
agnncnatag aaagnacgcc tgcaggnacc ggtccggaat tcccgggtcg acccacgcgt 60  
ccggagttag ccttgaacgc ctggacctgg acctcacagc tgacagccag ccacccgtct 120  
tcaaggtctt cccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180  
ctgccgctgc acnaccggcc agccaggagc tgcgcctgca ggaacccctg gngccccacc 240  
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccctcc 300  
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360  
tgctgagggg tcccggctgg actcactagt ggcanaacna ctonggctgg aagtngtagc 420  
tctgagggac tngccccag tgttgcccg gacctgat 458

<210> 369  
<211> 288  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
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<220>  
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<222> (56)  
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<223> n equals a,t,g, or c

<220>  
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<400> 369  
gcgctggagc tgctngngca ctgcggcgtg tgcagagagc gcctgcnacc cgaganggag 60  
ccccgcctgc ngccctgttt gcactcggcc tgtagtgccct gcntagggcc cgcngccccg 120  
ccgcccgcga cagctcgggg gacggcgggg cggcgggcga cggcaccgtg gtggactgtc 180  
ccgtgtgcaa gcaacagtgc ttctccaaag acatcgtgga gaatnatttc atgcgtgana 240  
gtggcagcaa ggctgccacc gacgccagc atgcgaacca gtgctgca 288

<210> 370  
<211> 292  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (53)  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (61)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (101)  
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<220>  
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<222> (141)  
<223> n equals a,t,g, or c

<220>  
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<222> (263)  
<223> n equals a,t,g, or c

<400> 370  
ccatcttttgc attgttcttc atccgcctcc ttgctcgccg cagccgctc cgncgcgcgn 60  
ntcctccgcc gccgcggact ccggcagctt tatcgccaga ntccctgaac tctcgcttcc 120  
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180  
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagagggc 240  
agaaaatgga agagacggcc ctnccttaacg gggaatgcta atttagggaa at 292

<210> 371  
<211> 477  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
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<222> (276)  
<223> n equals a,t,g, or c

<220>  
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<222> (313)  
<223> n equals a,t,g, or c

<220>  
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<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c



<220>  
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<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>  
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<222> (427)  
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<222> (434)  
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<220>  
<221> misc feature  
<222> (447)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (448)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<400> 371  
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tggttccaag cataaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120  
tggccagtca tggcaagggt taacaaaaga aagggcaaag cttaattggc ttagtgctga 180  
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240  
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300  
ggaatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaagggt 360  
tttcataat ttngaggaa ttccccgagt ttgttagcnc ctaaagggn gttatgctcg 420  
tatttgnccc actntaacc ctttttnnca nccggtttgt ttttttaaaa gggcttc 477

<210> 372  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>

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<222> (67)  
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<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (123)  
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<222> (171)  
<223> n equals a,t,g, or c

<220>  
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<222> (174)  
<223> n equals a,t,g, or c

<220>  
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<222> (220)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (351)  
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<222> (364)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (407)  
<223> n equals a,t,g, or c

<220>  
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<222> (411)  
<223> n equals a,t,g, or c

<220>  
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<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 372

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agaaganatc cttnaccctt gtaggaatgt ttttgaaact aaatttnatg aacgtnaaat 120
ttncacagtgg ttattatgaa cttccttgtc gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgcaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgtgg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncacgttg gtaggtgtgg aacttggggg tgaattnatt ncttaaccga 420
attttncggn ttccttaacc gag 443
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<210> 373

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

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<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 373

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gagacttggg gatggaaccg cacagagccg cgggcccttt gcagctgcga ttttcgccct 120
acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aattaacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga ctaaagatgt ataagcattc caataataag gccatgacta 360
cggggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
atgtttacaa catcatcggg ggaacttgatg aagaaggaaa gggg 464
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<210> 374

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (216)

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